

KEGG ID A	Protein Name A	IPI No. A	KEGG ID B	Protein Name B	IPI No. B	PIDS
hsa:1978	EIF4EBP1	IPI00002569	hsa:9470	EIF4E2	IPI00006779	552.781068
hsa:8637	EIF4EBP3	IPI00021476	hsa:9470	EIF4E2	IPI00006779	552.781068
hsa:8637	EIF4EBP3	IPI00021476	hsa:1977	EIF4E	IPI00027485	552.781068
hsa:1979	EIF4EBP2	IPI00002570	hsa:1977	EIF4E	IPI00027485	552.781068
hsa:1978	EIF4EBP1	IPI00002569	hsa:1977	EIF4E	IPI00027485	552.781068
hsa:8637	EIF4EBP3	IPI00021476	hsa:9470	EIF4E2	IPI00006779	552.781068
hsa:1978	EIF4EBP1	IPI00002569	hsa:1977	EIF4E	IPI00027485	552.781068
hsa:4194	MDM4	IPI00005170	hsa:7157	TP53	IPI00025087	345.488167
hsa:4193	MDM2	IPI00025490	hsa:7157	TP53	IPI00025087	345.488167
hsa:8717	TRADD	IPI00018744	hsa:7187	TRAF3	IPI00297473	333.574783
hsa:8717	TRADD	IPI00018744	hsa:7185	TRAF1	IPI00011549	333.574783
hsa:8717	TRADD	IPI00018744	hsa:7186	TRAF2	IPI00030278	333.574783
hsa:3500	IGHG1	IPI00829944	hsa:7185	TRAF1	IPI00011549	333.574783
hsa:332	BIRC5	IPI00006210	hsa:836	CASP3	IPI00292140	331.668641
hsa:57448	BIRC6	IPI00299635	hsa:836	CASP3	IPI00292140	331.668641
hsa:79444	BIRC7	IPI00152993	hsa:836	CASP3	IPI00292140	331.668641
hsa:331	BIRC4	IPI00303890	hsa:836	CASP3	IPI00292140	331.668641
hsa:79444	BIRC7	IPI00152993	hsa:840	CASP7	IPI00221307	331.668641
hsa:332	BIRC5	IPI00006210	hsa:840	CASP7	IPI00221307	331.668641
hsa:331	BIRC4	IPI00303890	hsa:840	CASP7	IPI00221307	331.668641
hsa:3108	HLA-DMA	IPI00291924	hsa:972	CD74	IPI00022933	331.668641
hsa:3458	IFNG	IPI00307209	hsa:3459	IFNGR1	IPI00010808	331.668641
hsa:4671	NAIP	IPI00011547	hsa:842	CASP9	IPI00023875	331.668641
hsa:112401	BIRC8	IPI00102423	hsa:842	CASP9	IPI00023875	331.668641
hsa:79444	BIRC7	IPI00152993	hsa:842	CASP9	IPI00023875	331.668641
hsa:57448	BIRC6	IPI00299635	hsa:842	CASP9	IPI00023875	331.668641
hsa:332	BIRC5	IPI00006210	hsa:842	CASP9	IPI00023875	331.668641
hsa:331	BIRC4	IPI00303890	hsa:842	CASP9	IPI00023875	331.668641
hsa:3117	HLA-DQA1	IPI00289658	hsa:972	CD74	IPI00022933	331.668641
hsa:3113	HLA-DPA1	IPI00021711	hsa:972	CD74	IPI00022933	331.668641
hsa:3122	HLA-DRA	IPI00005171	hsa:972	CD74	IPI00022933	331.668641
hsa:331	BIRC4	IPI00303890	hsa:842	CASP9	IPI00023875	331.668641
hsa:10810	WASF3	IPI00299003	hsa:10096	ACTR3	IPI00028091	315.874896
hsa:10163	WASF2	IPI00472164	hsa:10096	ACTR3	IPI00028091	315.874896
hsa:8976	WASL	IPI00011676	hsa:10097	ACTR2	IPI00005159	315.874896
hsa:10163	WASF2	IPI00472164	hsa:60	ACTB	IPI00021439	315.874896
hsa:10810	WASF3	IPI00299003	hsa:60	ACTB	IPI00021439	315.874896
hsa:8936	WASF1	IPI00022007	hsa:60	ACTB	IPI00021439	315.874896
hsa:25802	LMOD1	IPI00844008	hsa:60	ACTB	IPI00021439	315.874896
hsa:7456	WIPF1	IPI00418328	hsa:70	ACTC1	IPI00023006	315.874896
hsa:7454	WAS	IPI00001545	hsa:70	ACTC1	IPI00023006	315.874896
hsa:10163	WASF2	IPI00472164	hsa:10097	ACTR2	IPI00005159	315.874896
hsa:8936	WASF1	IPI00022007	hsa:71	ACTG1	unknown	315.874896
hsa:3586	IL10	IPI00026102	hsa:3588	IL10RB	IPI00646217	285.027738
hsa:50616	IL22	IPI00008372	hsa:58985	IL22RA1	IPI00297430	285.027738
hsa:282616	IL28A	IPI00218010	hsa:163702	IL28RA	IPI00216651	285.027738
hsa:50616	IL22	IPI00008372	hsa:3588	IL10RB	IPI00646217	285.027738
hsa:29949	IL19	IPI00028480	hsa:53832	IL20RA	IPI00004366	285.027738
hsa:50604	IL20	IPI00000048	hsa:53832	IL20RA	IPI00004366	285.027738
hsa:11009	IL24	IPI00011399	hsa:53832	IL20RA	IPI00004366	285.027738
hsa:330	BIRC3	IPI00013409	hsa:836	CASP3	IPI00292140	252.520443
hsa:329	BIRC2	IPI00013418	hsa:836	CASP3	IPI00292140	252.520443
hsa:330	BIRC3	IPI00013409	hsa:840	CASP7	IPI00221307	252.520443
hsa:329	BIRC2	IPI00013418	hsa:840	CASP7	IPI00221307	252.520443
hsa:56998	CTNNBIP1	IPI00025001	hsa:1499	CTNNB1	IPI00017292	207.2929
hsa:56998	CTNNBIP1	IPI00025001	hsa:3728	JUP	IPI00554711	207.2929
hsa:56998	CTNNBIP1	IPI00025001	hsa:3728	JUP	IPI00554711	207.2929
hsa:329	BIRC2	IPI00013418	hsa:842	CASP9	IPI00023875	178.744098
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hsa:837	CASP4	IPI00027725	hsa:23581	CASP14	IPI00013885	173.372244
hsa:837	CASP4	IPI00027725	hsa:843	CASP10	IPI00290791	173.372244
hsa:834	CASP1	IPI00021800	hsa:23581	CASP14	IPI00013885	173.372244
hsa:8767	RIPK2	IPI00021917	hsa:8837	CFLAR	IPI00007287	173.372244
hsa:8996	NOL3	IPI00105916	hsa:835	CASP2	IPI00291570	173.372244
hsa:842	CASP9	IPI00023875	hsa:843	CASP10	IPI00290791	173.372244
hsa:835	CASP2	IPI00291570	hsa:8837	CFLAR	IPI00007287	173.372244
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hsa:29108	PYCARD	IPI00001699	hsa:841	CASP8	IPI00000149	173.372244
hsa:842	CASP9	IPI00023875	hsa:836	CASP3	IPI00292140	173.372244
hsa:317	APAF1	IPI00023630	hsa:836	CASP3	IPI00292140	173.372244
hsa:837	CASP4	IPI00027725	hsa:836	CASP3	IPI00292140	173.372244
hsa:10392	NOD1	IPI00005776	hsa:837	CASP4	IPI00027725	173.372244
hsa:440068	INCA	unknown	hsa:834	CASP1	IPI00021800	173.372244
hsa:114769	COP1	IPI00554741	hsa:834	CASP1	IPI00021800	173.372244
hsa:22900	CARD8	IPI00032131	hsa:834	CASP1	IPI00021800	173.372244
hsa:29108	PYCARD	IPI00001699	hsa:834	CASP1	IPI00021800	173.372244
hsa:58484	NLRC4	IPI00293227	hsa:834	CASP1	IPI00021800	173.372244
hsa:10392	NOD1	IPI00005776	hsa:834	CASP1	IPI00021800	173.372244
hsa:835	CASP2	IPI00291570	hsa:840	CASP7	IPI00221307	173.372244
hsa:8767	RIPK2	IPI00021917	hsa:841	CASP8	IPI00000149	173.372244
hsa:8738	CRADD	IPI00020364	hsa:841	CASP8	IPI00000149	173.372244
hsa:317	APAF1	IPI00023630	hsa:841	CASP8	IPI00000149	173.372244
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hsa:8996	NOL3	IPI00105916	hsa:841	CASP8	IPI00000149	173.372244
hsa:835	CASP2	IPI00291570	hsa:23581	CASP14	IPI00013885	173.372244
hsa:10392	NOD1	IPI00005776	hsa:835	CASP2	IPI00291570	173.372244
hsa:1756	DMD	IPI00006091	hsa:58	ACTA1	IPI00021428	165.83432
hsa:6712	SPTBN2	IPI00012645	hsa:10121	ACTRIA	IPI00029468	165.83432
hsa:6711	SPTBN1	IPI00005614	hsa:10121	ACTRIA	IPI00029468	165.83432
hsa:8407	TAGLN2	IPI00550363	hsa:64431	ACTR6	IPI00171779	165.83432
hsa:1265	CNN2	IPI00015262	hsa:60	ACTB	IPI00021439	165.83432
hsa:23224	SYNE2	IPI00239405	hsa:70	ACTC1	IPI00023006	165.83432
hsa:81	ACTN4	IPI00013808	hsa:70	ACTC1	IPI00023006	165.83432
hsa:5339	PLEC1	IPI00014898	hsa:70	ACTC1	IPI00023006	165.83432
hsa:1756	DMD	IPI00006091	hsa:70	ACTC1	IPI00023006	165.83432
hsa:10788	IQGAP2	IPI00299048	hsa:10097	ACTR2	IPI00005159	165.83432
hsa:6876	TAGLN	IPI00216138	hsa:58	ACTA1	IPI00021428	165.83432
hsa:1264	CNN1	IPI00021264	hsa:58	ACTA1	IPI00021428	165.83432
hsa:7409	VAV1	IPI00011696	hsa:58	ACTA1	IPI00021428	165.83432
hsa:55742	PARVA	IPI00018963	hsa:58	ACTA1	IPI00021428	165.83432
hsa:23499	MACF1	IPI00432363	hsa:58	ACTA1	IPI00021428	165.83432
hsa:6712	SPTBN2	IPI00012645	hsa:58	ACTA1	IPI00021428	165.83432
hsa:8826	IQGAP1	IPI00009342	hsa:58	ACTA1	IPI00021428	165.83432
hsa:2620	GAS2	IPI00015130	hsa:58	ACTA1	IPI00021428	165.83432
hsa:6525	SMTN	IPI00024007	hsa:58	ACTA1	IPI00021428	165.83432
hsa:7402	UTRN	IPI00009329	hsa:58	ACTA1	IPI00021428	165.83432
hsa:5339	PLEC1	IPI00014898	hsa:71	ACTG1	unknown	165.83432
hsa:317	APAF1	IPI00023630	hsa:837	CASP4	IPI00027725	162.065359
hsa:22861	NLRP1	IPI00328123	hsa:834	CASP1	IPI00021800	150.758473
hsa:22861	NLRP1	IPI00328123	hsa:842	CASP9	IPI00023875	150.758473
hsa:22861	NLRP1	IPI00328123	hsa:317	APAF1	IPI00023630	150.758473
hsa:22861	NLRP1	IPI00328123	hsa:835	CASP2	IPI00291570	150.758473
hsa:22861	NLRP1	IPI00328123	hsa:10392	NOD1	IPI00005776	150.758473
hsa:22861	NLRP1	IPI00328123	hsa:58484	NLRC4	IPI00293227	150.758473
hsa:22861	NLRP1	IPI00328123	hsa:29108	PYCARD	IPI00001699	150.758473
hsa:55655	NLRP2	IPI00016480	hsa:22900	CARD8	IPI00032131	150.758473
hsa:22861	NLRP1	IPI00328123	hsa:838	CASP5	IPI00873979	150.758473
hsa:4036	LRP2	IPI00024292	hsa:3630	INS	IPI00001508	142.143703
hsa:3486	IGFBP3	IPI00018305	hsa:3481	IGF2	IPI00001611	142.143703

hsa:3486	IGFBP3	IPI00018305	hsa:3479	IGF1	IPI00001610	142.143703
hsa:3487	IGFBP4	IPI00305380	hsa:3481	IGF2	IPI00001611	142.143703
hsa:3487	IGFBP4	IPI00305380	hsa:3479	IGF1	IPI00001610	142.143703
hsa:4856	NOV	IPI00011140	hsa:3481	IGF2	IPI00001611	142.143703
hsa:4856	NOV	IPI00011140	hsa:3479	IGF1	IPI00001610	142.143703
hsa:3488	IGFBP5	IPI00029236	hsa:3481	IGF2	IPI00001611	142.143703
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hsa:3489	IGFBP6	IPI00029235	hsa:3481	IGF2	IPI00001611	142.143703
hsa:3490	IGFBP7	IPI00016915	hsa:3630	INS	IPI00001508	142.143703
hsa:4856	NOV	IPI00011140	hsa:3630	INS	IPI00001508	142.143703
hsa:3489	IGFBP6	IPI00029235	hsa:3479	IGF1	IPI00001610	142.143703
hsa:3485	IGFBP2	IPI00297284	hsa:3479	IGF1	IPI00001610	142.143703
hsa:3484	IGFBP1	IPI00031086	hsa:3479	IGF1	IPI00001610	142.143703
hsa:3490	IGFBP7	IPI00016915	hsa:3479	IGF1	IPI00001610	142.143703
hsa:3485	IGFBP2	IPI00297284	hsa:3481	IGF2	IPI00001611	142.143703
hsa:3484	IGFBP1	IPI00031086	hsa:3481	IGF2	IPI00001611	142.143703
hsa:3490	IGFBP7	IPI00016915	hsa:3481	IGF2	IPI00001611	142.143703
hsa:1514	CTSL1	IPI00012887	hsa:7038	TG	IPI00306129	138.195267
hsa:1514	CTSL1	IPI00012887	hsa:3486	IGFBP3	IPI00018305	138.195267
hsa:8945	BTRC	IPI00413142	hsa:3728	JUP	IPI00554711	135.892012
hsa:8945	BTRC	IPI00413142	hsa:1499	CTNNB1	IPI00017292	135.892012
hsa:5771	PTPN2	IPI00219695	hsa:3837	KPNB1	IPI00001639	125.632061
hsa:5795	PTPRJ	IPI00847732	hsa:1500	CTNND1	IPI00219725	125.632061
hsa:5777	PTPN6	IPI00218604	hsa:1500	CTNND1	IPI00219725	125.632061
hsa:5783	PTPN13	IPI00030246	hsa:1499	CTNNB1	IPI00017292	125.632061
hsa:5784	PTPN14	IPI00018914	hsa:1499	CTNNB1	IPI00017292	125.632061
hsa:5777	PTPN6	IPI00218604	hsa:1499	CTNNB1	IPI00017292	125.632061
hsa:5795	PTPRJ	IPI00847732	hsa:1499	CTNNB1	IPI00017292	125.632061
hsa:5803	PTPRZ1	IPI00216283	hsa:1499	CTNNB1	IPI00017292	125.632061
hsa:5770	PTPN1	IPI00297261	hsa:1499	CTNNB1	IPI00017292	125.632061
hsa:5784	PTPN14	IPI00018914	hsa:3728	JUP	IPI00554711	125.632061
hsa:5795	PTPRJ	IPI00847732	hsa:3728	JUP	IPI00554711	125.632061
hsa:5783	PTPN13	IPI00030246	hsa:324	APC	IPI00012391	125.632061
hsa:11156	PTP4A3	IPI00289328	hsa:55898	UNC45A	IPI00072534	125.632061
hsa:11156	PTP4A3	IPI00289328	hsa:10985	GCN1L1	IPI00001159	125.632061
hsa:11156	PTP4A3	IPI00289328	hsa:55027	HEATR3	IPI00100984	125.632061
hsa:11156	PTP4A3	IPI00289328	hsa:30000	TNPO2	IPI00409698	125.632061
hsa:11156	PTP4A3	IPI00289328	hsa:51606	ATP6V1H	IPI00296191	125.632061
hsa:317	APAF1	IPI00023630	hsa:842	CASP9	IPI00023875	118.440708
hsa:4615	MYD88	IPI00383890	hsa:8405	SPOP	IPI00013978	114.368497
hsa:8772	FADD	IPI00011919	hsa:7186	TRAF2	IPI00030278	114.368497
hsa:10892	MALT1	IPI00009540	hsa:7186	TRAF2	IPI00030278	114.368497
hsa:10892	MALT1	IPI00009540	hsa:7189	TRAF6	IPI00743663	114.368497
hsa:4615	MYD88	IPI00383890	hsa:8405	SPOP	IPI00013978	114.368497
hsa:9241	NOG	IPI00012361	hsa:653	BMP5	IPI00024886	103.64645
hsa:9241	NOG	IPI00012361	hsa:652	BMP4	IPI00292640	103.64645
hsa:9241	NOG	IPI00012361	hsa:655	BMP7	IPI00550949	103.64645
hsa:9241	NOG	IPI00012361	hsa:650	BMP2	IPI00025069	103.64645
hsa:8915	BCL10	IPI00022477	hsa:10892	MALT1	IPI00009540	102.281826
hsa:22900	CARD8	IPI00032131	hsa:842	CASP9	IPI00023875	102.281826
hsa:10392	NOD1	IPI00005776	hsa:842	CASP9	IPI00023875	102.281826
hsa:8915	BCL10	IPI00022477	hsa:842	CASP9	IPI00023875	102.281826
hsa:353091	RAET1G	IPI00433027	hsa:22914	KLRK18302	IPI00473104	99.217115
hsa:135250	RAET1E	IPI00154722	hsa:22914	KLRK18302	IPI00473104	99.217115
hsa:79465	ULBP3	IPI00001602	hsa:22914	KLRK18302	IPI00473104	99.217115
hsa:10913	EDAR	IPI00007051	hsa:7187	TRAF3	IPI00297473	90.351112
hsa:10913	EDAR	IPI00007051	hsa:7185	TRAF1	IPI00011549	90.351112
hsa:7132	TNFRSF1A	IPI00018880	hsa:7185	TRAF1	IPI00011549	90.351112
hsa:10913	EDAR	IPI00007051	hsa:7186	TRAF2	IPI00030278	90.351112
hsa:7132	TNFRSF1A	IPI00018880	hsa:7186	TRAF2	IPI00030278	90.351112

hsa:8767	RIPK2	IPI00021917	hsa:834	CASP1	IPI00021800	87.287552
hsa:7066	THPO	IPI00218254	hsa:4352	MPL	IPI00027637	79.866096
hsa:2056	EPO	IPI00307226	hsa:2057	EPOR	IPI00017476	79.866096
hsa:7135	TNNI1	IPI00453474	hsa:7134	TNNC1	IPI00470359	78.968724
hsa:7137	TNNI3	IPI00244346	hsa:7134	TNNC1	IPI00470359	78.968724
hsa:7137	TNNI3	IPI00244346	hsa:5311	PKD2	IPI00299040	78.968724
hsa:7136	TNNI2	IPI00216236	hsa:801	CALM1	unknown	78.968724
hsa:7136	TNNI2	IPI00216236	hsa:7134	TNNC1	IPI00470359	78.968724
hsa:7136	TNNI2	IPI00216236	hsa:7125	TNNC2	IPI00219796	78.968724
hsa:7139	TNNT2	IPI00021292	hsa:7134	TNNC1	IPI00470359	78.968724
hsa:7138	TNNT1	IPI00395442	hsa:7134	TNNC1	IPI00470359	78.968724
hsa:7138	TNNT1	IPI00395442	hsa:22981	RP4-691N24.1	IPI00294173	78.968724
hsa:7138	TNNT1	IPI00395442	hsa:22981	KIAA0980	IPI00294173	78.968724
hsa:1500	CTNND1	IPI00219725	hsa:64403	CDH24	IPI00386103	77.734838
hsa:1500	CTNND1	IPI00219725	hsa:1003	CDH5	IPI00012792	77.734838
hsa:1500	CTNND1	IPI00219725	hsa:999	CDH1	IPI00025861	77.734838
hsa:1500	CTNND1	IPI00219725	hsa:1001	CDH3	IPI00645614	77.734838
hsa:1499	CTNNB1	IPI00017292	hsa:1014	CDH16	IPI00025240	77.734838
hsa:8502	PKP4	IPI00021076	hsa:1003	CDH5	IPI00012792	77.734838
hsa:8502	PKP4	IPI00021076	hsa:1825	DSC3	IPI00031549	77.734838
hsa:1501	CTNND2	IPI00301317	hsa:1000	CDH2	IPI00290085	77.734838
hsa:3728	JUP	IPI00554711	hsa:1830	DSG3	IPI00031547	77.734838
hsa:3728	JUP	IPI00554711	hsa:1829	DSG2	IPI00028931	77.734838
hsa:3728	JUP	IPI00554711	hsa:1824	DSC2	IPI00025846	77.734838
hsa:3728	JUP	IPI00554711	hsa:1823	DSC1	IPI00216099	77.734838
hsa:5318	PKP2	IPI00005264	hsa:1829	DSG2	IPI00028931	77.734838
hsa:5318	PKP2	IPI00005264	hsa:1828	DSG1	IPI00025753	77.734838
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hsa:5318	PKP2	IPI00005264	hsa:1823	DSC1	IPI00216099	77.734838
hsa:5317	PKP1	IPI00071509	hsa:1828	DSG1	IPI00025753	77.734838
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hsa:10636	RGS14	IPI00012893	hsa:2775	GNAO1	IPI00220281	63.782431
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hsa:5997	RGS2	IPI00013177	hsa:2778	GNAS	IPI00009881	63.782431

hsa:64407	RGS18	IPI00016825	hsa:2771	GNAI2	IPI00748145	63.782431
hsa:10287	RGS19	IPI00028108	hsa:2771	GNAI2	IPI00748145	63.782431
hsa:8490	RGS5	IPI00183077	hsa:2771	GNAI2	IPI00748145	63.782431
hsa:5999	RGS4	IPI00028112	hsa:2771	GNAI2	IPI00748145	63.782431
hsa:6004	RGS16	IPI00289948	hsa:2771	GNAI2	IPI00748145	63.782431
hsa:10636	RGS14	IPI00012893	hsa:2771	GNAI2	IPI00748145	63.782431
hsa:6002	RGS12	IPI00024714	hsa:2771	GNAI2	IPI00748145	63.782431
hsa:64407	RGS18	IPI00016825	hsa:2773	GNAI3	IPI00220578	63.782431
hsa:10287	RGS19	IPI00028108	hsa:2773	GNAI3	IPI00220578	63.782431
hsa:8490	RGS5	IPI00183077	hsa:2773	GNAI3	IPI00220578	63.782431
hsa:6001	RGS10	IPI00013454	hsa:2773	GNAI3	IPI00220578	63.782431
hsa:6000	RGS7	IPI00028457	hsa:2773	GNAI3	IPI00220578	63.782431
hsa:6004	RGS16	IPI00289948	hsa:2773	GNAI3	IPI00220578	63.782431
hsa:10636	RGS14	IPI00012893	hsa:2773	GNAI3	IPI00220578	63.782431
hsa:6002	RGS12	IPI00024714	hsa:2773	GNAI3	IPI00220578	63.782431
hsa:9826	ARHGFEF11	IPI00157442	hsa:10672	GNAI3	IPI00290928	63.782431
hsa:6004	RGS16	IPI00289948	hsa:10672	GNAI3	IPI00290928	63.782431
hsa:5997	RGS2	IPI00013177	hsa:2769	GNAI5	IPI00027243	63.782431
hsa:5906	RAP1A	IPI00019345	hsa:10636	RGS14	IPI00012893	63.45701
hsa:5911	RAP2A	IPI00019346	hsa:10636	RGS14	IPI00012893	63.45701
hsa:1499	CTNNB1	IPI00017292	hsa:1009	CDH11	IPI00304227	63.339498
hsa:1499	CTNNB1	IPI00017292	hsa:1006	CDH8	IPI00024036	63.339498
hsa:1499	CTNNB1	IPI00017292	hsa:1003	CDH5	IPI00012792	63.339498
hsa:1499	CTNNB1	IPI00017292	hsa:1825	DSC3	IPI00031549	63.339498
hsa:1499	CTNNB1	IPI00017292	hsa:999	CDH1	IPI00025861	63.339498
hsa:1499	CTNNB1	IPI00017292	hsa:1007	CDH9	IPI00297180	63.339498
hsa:1499	CTNNB1	IPI00017292	hsa:64403	CDH24	IPI00386103	63.339498
hsa:1499	CTNNB1	IPI00017292	hsa:1005	CDH7	IPI00297181	63.339498
hsa:1499	CTNNB1	IPI00017292	hsa:1001	CDH3	IPI00645614	63.339498
hsa:1499	CTNNB1	IPI00017292	hsa:1000	CDH2	IPI00290085	63.339498
hsa:1499	CTNNB1	IPI00017292	hsa:1013	CDH15	IPI00024048	63.339498
hsa:3728	JUP	IPI00554711	hsa:1003	CDH5	IPI00012792	63.339498
hsa:3728	JUP	IPI00554711	hsa:1825	DSC3	IPI00031549	63.339498
hsa:3728	JUP	IPI00554711	hsa:1828	DSG1	IPI00025753	63.339498
hsa:3728	JUP	IPI00554711	hsa:1000	CDH2	IPI00290085	63.339498
hsa:421	ARVCF	IPI00010490	hsa:1000	CDH2	IPI00290085	63.339498
hsa:421	ARVCF	IPI00010490	hsa:999	CDH1	IPI00025861	63.339498
hsa:3728	JUP	IPI00554711	hsa:999	CDH1	IPI00025861	63.339498
hsa:421	ARVCF	IPI00010490	hsa:1013	CDH15	IPI00024048	63.339498
hsa:3728	JUP	IPI00554711	hsa:1013	CDH15	IPI00024048	63.339498
hsa:10673	TNFSF13B	IPI00031802	hsa:23495	TNFRSF13B	IPI00018362	60.575592
hsa:8741	TNFSF13	unknown	hsa:23495	TNFRSF13B	IPI00018362	60.575592
hsa:8741	TNFSF13	unknown	hsa:608	TNFRSF17	IPI00293877	60.460429
hsa:10673	TNFSF13B	IPI00031802	hsa:608	TNFRSF17	IPI00293877	60.460429
hsa:722	C4BPA	IPI00021727	hsa:721	C4B720	IPI00032258	60.303389
hsa:3075	CFH	IPI00029739	hsa:718	C3	IPI00783987	60.303389
hsa:1378	CR1	IPI00039288	hsa:721	C4B720	IPI00032258	60.303389
hsa:1378	CR1	IPI00039288	hsa:720	C4A	IPI00874094	60.303389
hsa:1378	CR1	IPI00039288	hsa:718	C3	IPI00783987	60.303389
hsa:1380	CR2	IPI00292859	hsa:718	C3	IPI00783987	60.303389
hsa:10878	CFHR3	IPI00027507	hsa:718	C3	IPI00783987	60.303389
hsa:717	C2	IPI00303963	hsa:718	C3	IPI00783987	60.303389
hsa:81494	CFHR5	IPI00843942	hsa:718	C3	IPI00783987	60.303389
hsa:10877	CFHR4	IPI00021578	hsa:718	C3	IPI00783987	60.303389
hsa:5648	MASP1	IPI00299307	hsa:718	C3	IPI00783987	60.303389
hsa:5069	PAPPA	IPI00001869	hsa:718	C3	IPI00783987	60.303389
hsa:629	CFB	IPI00019591	hsa:718	C3	IPI00783987	60.303389
hsa:4179	CD46	IPI00012035	hsa:718	C3	IPI00783987	60.303389
hsa:717	C2	IPI00303963	hsa:727	C5	IPI00032291	60.303389
hsa:730	C7	IPI00296608	hsa:727	C5	IPI00032291	60.303389

hsa:729	C6	IPI00009920	hsa:727	C5	IPI00032291	60.303389
hsa:717	C2	IPI00303963	hsa:721	C4B720	IPI00032258	60.303389
hsa:5648	MASP1	IPI00299307	hsa:721	C4B720	IPI00032258	60.303389
hsa:629	CFB	IPI00019591	hsa:721	C4B720	IPI00032258	60.303389
hsa:4179	CD46	IPI00012035	hsa:721	C4B720	IPI00032258	60.303389
hsa:867	CBL	IPI00027269	hsa:10603	SH2B2	IPI00155706	50.951994
hsa:867	CBL	IPI00027269	hsa:6777	STAT5B	IPI00103415	50.951994
hsa:867	CBL	IPI00027269	hsa:6776	STAT5A	IPI00030783	50.951994
hsa:867	CBL	IPI00027269	hsa:3937	LCP2	IPI00297169	50.951994
hsa:867	CBL	IPI00027269	hsa:5781	PTPN11	IPI00658023	50.951994
hsa:867	CBL	IPI00027269	hsa:3636	INPPL1	IPI00016932	50.951994
hsa:867	CBL	IPI00027269	hsa:6464	SHC1	IPI00645103	50.951994
hsa:867	CBL	IPI00027269	hsa:5295	PIK3R1	IPI00021448	50.951994
hsa:868	CBLB	IPI00292856	hsa:5295	PIK3R1	IPI00021448	50.951994
hsa:867	CBL	IPI00027269	hsa:5777	PTPN6	IPI00218604	50.951994
hsa:868	CBLB	IPI00292856	hsa:29760	BLNK	IPI00002434	50.951994
hsa:7133	TNFRSF1B	IPI00023501	hsa:7189	TRAF6	IPI00743663	50.441272
hsa:7133	TNFRSF1B	IPI00023501	hsa:7186	TRAF2	IPI00030278	50.441272
hsa:8737	RIPK1	IPI00013773	hsa:7185	TRAF1	IPI00011549	48.363274
hsa:867	CBL	IPI00027269	hsa:4690	NCK1	IPI00028065	48.085086
hsa:867	CBL	IPI00027269	hsa:7410	VAV2	IPI00446303	48.085086
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hsa:867	CBL	IPI00027269	hsa:5296	PIK3R2	IPI00011736	48.085086
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hsa:867	CBL	IPI00027269	hsa:6503	SLA	IPI00009499	48.085086
hsa:867	CBL	IPI00027269	hsa:5335	PLCG1	IPI00016736	48.085086
hsa:867	CBL	IPI00027269	hsa:7409	VAV1	IPI00011696	48.085086
hsa:867	CBL	IPI00027269	hsa:2885	GRB2	IPI00021327	48.085086
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hsa:12	SERPINA3	IPI00847635	hsa:354	KLK3	IPI00010858	46.426182
hsa:12	SERPINA3	IPI00847635	hsa:3817	KLK2	IPI00022227	46.426182
hsa:12	SERPINA3	IPI00847635	hsa:1991	ELA2	IPI00027769	46.426182
hsa:12	SERPINA3	IPI00847635	hsa:1990	ELA1	IPI00019729	46.426182
hsa:12	SERPINA3	IPI00847635	hsa:1215	CMA1	IPI00013937	46.426182
hsa:12	SERPINA3	IPI00847635	hsa:1504	CTRB1	IPI00015133	46.426182
hsa:12	SERPINA3	IPI00847635	hsa:1506	CTRL	IPI00643847	46.426182
hsa:12	SERPINA3	IPI00847635	hsa:1511	CTSG	IPI00028064	46.426182
hsa:5054	SERPINE1	IPI00007118	hsa:3817	KLK2	IPI00022227	46.426182
hsa:5054	SERPINE1	IPI00007118	hsa:1991	ELA2	IPI00027769	46.426182
hsa:183	AGT	IPI00032220	hsa:1215	CMA1	IPI00013937	46.426182
hsa:183	AGT	IPI00032220	hsa:1511	CTSG	IPI00028064	46.426182
hsa:462	SERPINC1	IPI00032179	hsa:5653	KLK6	IPI00023845	46.426182
hsa:5275	SERPINB13	IPI00006560	hsa:5644	PRSS1	IPI00011694	46.426182
hsa:5275	SERPINB13	IPI00006560	hsa:5657	PRTN3	IPI00027409	46.426182
hsa:5267	SERPINA4	IPI00328609	hsa:3816	KLK1	IPI00304808	46.426182
hsa:5345	SERPINF2	IPI00029863	hsa:5653	KLK6	IPI00023845	46.426182
hsa:5345	SERPINF2	IPI00029863	hsa:2160	F11	IPI00008556	46.426182
hsa:5345	SERPINF2	IPI00029863	hsa:26085	KLK13	IPI00007726	46.426182
hsa:5345	SERPINF2	IPI00029863	hsa:5644	PRSS1	IPI00011694	46.426182
hsa:5345	SERPINF2	IPI00029863	hsa:1675	CFD	IPI00165972	46.426182
hsa:5265	SERPINA1	IPI00553177	hsa:25818	KLK5	IPI00032464	46.426182
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hsa:5265	SERPINA1	IPI00553177	hsa:5657	PRTN3	IPI00027409	46.426182
hsa:710	SERPING1	IPI00291866	hsa:10747	MASP2	IPI00294713	46.426182
hsa:1992	SERPINB1	IPI00027444	hsa:5657	PRTN3	IPI00027409	46.426182
hsa:5104	SERPINA5	IPI00007221	hsa:2160	F11	IPI00008556	46.426182
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hsa:5104	SERPINA5	IPI00007221	hsa:3818	KLKB1	IPI00654888	46.426182
hsa:5104	SERPINA5	IPI00007221	hsa:3816	KLK1	IPI00304808	46.426182

hsa:5271	SERPINB8	IPI00032134	hsa:5644	PRSS1	IPI00011694	46.426182
hsa:5265	SERPINA1	IPI00553177	hsa:5645	PRSS2	IPI00011695	46.426182
hsa:5265	SERPINA1	IPI00553177	hsa:5646	PRSS3	IPI00015614	46.426182
hsa:5265	SERPINA1	IPI00553177	hsa:1511	CTSG	IPI00028064	46.426182
hsa:5275	SERPINB13	IPI00006560	hsa:1511	CTSG	IPI00028064	46.426182
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hsa:5265	SERPINA1	IPI00553177	hsa:1990	ELA1	IPI00019729	46.426182
hsa:5104	SERPINA5	IPI00007221	hsa:3817	KLK2	IPI00022227	46.426182
hsa:5345	SERPINF2	IPI00029863	hsa:3817	KLK2	IPI00022227	46.426182
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hsa:5267	SERPINA4	IPI00328609	hsa:3817	KLK2	IPI00022227	46.426182
hsa:462	SERPINC1	IPI00032179	hsa:3817	KLK2	IPI00022227	46.426182
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hsa:5265	SERPINA1	IPI00553177	hsa:354	KLK3	IPI00010858	46.426182
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hsa:5345	SERPINF2	IPI00029863	hsa:1504	CTRB1	IPI00015133	46.426182
hsa:710	SERPING1	IPI00291866	hsa:1991	ELA2	IPI00027769	46.426182
hsa:5275	SERPINB13	IPI00006560	hsa:1991	ELA2	IPI00027769	46.426182
hsa:5265	SERPINA1	IPI00553177	hsa:1991	ELA2	IPI00027769	46.426182
hsa:5345	SERPINF2	IPI00029863	hsa:1991	ELA2	IPI00027769	46.426182
hsa:3053	SERPIND1	IPI00292950	hsa:1991	ELA2	IPI00027769	46.426182
hsa:1992	SERPINB1	IPI00027444	hsa:1991	ELA2	IPI00027769	46.426182
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hsa:5269	SERPINB6	IPI00749398	hsa:5624	PROC	IPI00021817	46.426182
hsa:5272	SERPINB9	IPI00032139	hsa:3002	GZMB	IPI00744785	46.426182
hsa:710	SERPING1	IPI00291866	hsa:716	C1S	IPI00744502	46.426182
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hsa:51156	SERPINA10	IPI00007199	hsa:2159	F10	IPI00019576	46.426182
hsa:5104	SERPINA5	IPI00007221	hsa:2159	F10	IPI00019576	46.426182
hsa:5271	SERPINB8	IPI00032134	hsa:2159	F10	IPI00019576	46.426182
hsa:5269	SERPINB6	IPI00749398	hsa:2159	F10	IPI00019576	46.426182
hsa:2147	F2	IPI00019568	hsa:2160	F11	IPI00008556	44.847379
hsa:944	TNFSF8	IPI00031715	hsa:943	TNFRSF8	IPI00006073	43.531509
hsa:8741	TNFSF13	unknown	hsa:4982	TNFRSF11B	IPI00298362	43.531509
hsa:8741	TNFSF13	unknown	hsa:8764	TNFRSF14	IPI00024331	43.531509
hsa:8741	TNFSF13	unknown	hsa:7132	TNFRSF1A	IPI00018880	43.531509
hsa:8741	TNFSF13	unknown	hsa:355	FAS	IPI00744894	43.531509
hsa:356	FASLG	IPI00007577	hsa:8771	TNFRSF6B	unknown	43.531509
hsa:356	FASLG	IPI00007577	hsa:355	FAS	IPI00744894	43.531509
hsa:7124	TNF	IPI00001671	hsa:7133	TNFRSF1B	IPI00023501	43.531509
hsa:1896	EDA	IPI00216144	hsa:60401	EDA2R	IPI00029116	43.531509
hsa:1896	EDA	IPI00216144	hsa:10913	EDAR	IPI00007051	43.531509
hsa:8600	TNFSF11	IPI00023732	hsa:4982	TNFRSF11B	IPI00298362	43.531509
hsa:8600	TNFSF11	IPI00023732	hsa:8792	TNFRSF11A	IPI00021968	43.531509
hsa:4049	LTA	IPI00001670	hsa:4055	LTBR	IPI00006097	43.531509
hsa:4050	LTB	IPI00032334	hsa:4055	LTBR	IPI00006097	43.531509
hsa:8743	TNFSF10	IPI00747054	hsa:4982	TNFRSF11B	IPI00298362	43.531509
hsa:8743	TNFSF10	IPI00747054	hsa:8793	TNFRSF10D	IPI00294516	43.531509
hsa:8743	TNFSF10	IPI00747054	hsa:8794	TNFRSF10C	IPI00021970	43.531509
hsa:959	CD40LG	IPI00024686	hsa:958	CD40	IPI00018282	43.531509
hsa:7124	TNF	IPI00001671	hsa:7132	TNFRSF1A	IPI00018880	43.531509
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hsa:9966	TNFSF15	IPI00021380	hsa:8771	TNFRSF6B	unknown	43.531509
hsa:8740	TNFSF14	IPI00307531	hsa:8771	TNFRSF6B	unknown	43.531509
hsa:8740	TNFSF14	IPI00307531	hsa:8764	TNFRSF14	IPI00024331	43.531509
hsa:4049	LTA	IPI00001670	hsa:8764	TNFRSF14	IPI00024331	43.531509
hsa:4049	LTA	IPI00001670	hsa:7133	TNFRSF1B	IPI00023501	43.531509
hsa:8740	TNFSF14	IPI00307531	hsa:4055	LTBR	IPI00006097	43.531509

hsa:9966	TNFSF15	IPI00021380	hsa:8718	TNFRSF25	IPI00003999	43.531509
hsa:8742	TNFSF12	IPI00021900	hsa:8718	TNFRSF25	IPI00003999	43.531509
hsa:970	CD70	IPI00031713	hsa:939	CD27	IPI00002435	43.531509
hsa:8743	TNFSF10	IPI00747054	hsa:8795	TNFRSF10B	IPI00296379	43.531509
hsa:7292	TNFSF4	IPI00011974	hsa:7293	TNFRSF4	IPI00018859	43.531509
hsa:8744	TNFSF9	IPI00013301	hsa:3604	TNFRSF9	IPI00014211	43.531509
hsa:8995	TNFSF18	IPI00009195	hsa:8784	TNFRSF18	IPI00001796	43.531509
hsa:10673	TNFSF13B	IPI00031802	hsa:115650	TNFRSF13C	IPI00045337	43.186021
hsa:5879	RAC1	IPI00010271	hsa:56990	CDC42SE2	IPI00024973	43.073849
hsa:5879	RAC1	IPI00010271	hsa:56882	CDC42SE1	IPI00386978	43.073849
hsa:998	CDC42	IPI00007189	hsa:56882	CDC42SE1	IPI00386978	43.073849
hsa:998	CDC42	IPI00007189	hsa:10602	CDC42EP3	IPI00294391	43.073849
hsa:998	CDC42	IPI00007189	hsa:11135	CDC42EP1	IPI00023605	43.073849
hsa:998	CDC42	IPI00007189	hsa:148170	CDC42EP5	IPI00290570	43.073849
hsa:998	CDC42	IPI00007189	hsa:10435	CDC42EP2	IPI00009533	43.073849
hsa:23433	RHOQ	IPI00012511	hsa:10602	CDC42EP3	IPI00294391	43.073849
hsa:23433	RHOQ	IPI00012511	hsa:23580	CDC42EP4	IPI00015894	43.073849
hsa:23433	RHOQ	IPI00012511	hsa:11135	CDC42EP1	IPI00023605	43.073849
hsa:57381	RHOJ	IPI00027952	hsa:7454	WAS	IPI00001545	43.073849
hsa:5879	RAC1	IPI00010271	hsa:7454	WAS	IPI00001545	43.073849
hsa:998	CDC42	IPI00007189	hsa:7454	WAS	IPI00001545	43.073849
hsa:23433	RHOQ	IPI00012511	hsa:8976	WASL	IPI00011676	43.073849
hsa:998	CDC42	IPI00007189	hsa:8976	WASL	IPI00011676	43.073849
hsa:23433	RHOQ	IPI00012511	hsa:10435	CDC42EP2	IPI00009533	43.073849
hsa:23433	RHOQ	IPI00012511	hsa:7454	WAS	IPI00001545	43.073849
hsa:998	CDC42	IPI00007189	hsa:11135	CDC42EP1	IPI00023605	43.073849
hsa:3106	HLA-B	unknown	hsa:3824	KLRD1	IPI00012338	41.657853
hsa:3135	HLA-G	IPI00015988	hsa:3824	KLRD1	IPI00012338	41.657853
hsa:3133	HLA-E	IPI00830076	hsa:3824	KLRD1	IPI00012338	41.657853
hsa:3133	HLA-E	IPI00830076	hsa:3822	KLRC2	IPI00291660	41.657853
hsa:3133	HLA-E	IPI00830076	hsa:3821	KLRC1	IPI00001517	41.657853
hsa:4277	MICB	IPI00640150	hsa:22914	KLRK18302	IPI00473104	41.657853
hsa:4276	MICA	unknown	hsa:22914	KLRK18302	IPI00473104	41.657853
hsa:868	CBLB	IPI00292856	hsa:6464	SHC1	IPI00645103	40.617392
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hsa:2889	RAPGEF1	IPI00394743	hsa:5908	RAP1B	IPI00015148	39.954414
hsa:2889	RAPGEF1	IPI00394743	hsa:22800	RRAS2	IPI00012512	39.954414
hsa:2889	RAPGEF1	IPI00394743	hsa:3265	HRAS	IPI00000006	39.954414
hsa:10411	RAPGEF3	IPI00871947	hsa:22800	RRAS2	IPI00012512	39.954414
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hsa:867	CBL	IPI00027269	hsa:2533	FYB	IPI00446986	39.484362
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hsa:867	CBL	IPI00027269	hsa:84959	STS-1	IPI00154910	39.484362
hsa:867	CBL	IPI00027269	hsa:10580	SORBS1	IPI00186452	39.484362
hsa:867	CBL	IPI00027269	hsa:23607	CD2AP	IPI00412771	39.484362
hsa:8975	USP13	IPI00024401	hsa:54874	FNBP1L	IPI00807364	39.484362
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hsa:29911	HOOK2	IPI00002432	hsa:2059	EPS8	IPI00290337	39.484362
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hsa:868	CBLB	IPI00292856	hsa:1399	CRKL	IPI00004839	39.223422
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hsa:7186	TRAF2	IPI00030278	hsa:329	BIRC2	IPI00013418	38.304122
hsa:7186	TRAF2	IPI00030278	hsa:11074	TRIM31	IPI00292397	38.304122
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hsa:7189	TRAF6	IPI00743663	hsa:331	BIRC4	IPI00303890	38.304122
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hsa:6655	SOS2	IPI00020134	hsa:3265	HRAS	IPI00000006	37.788059
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hsa:64283	RGNEF	IPI00455803	hsa:387	RHOA	IPI00478231	35.621705
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hsa:867	CBL	IPI00027269	hsa:6714	SRC	IPI00641230	35.124889
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hsa:10468	FST	IPI00021081	hsa:83729	INHBE	IPI00011036	34.548817
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hsa:10468	FST	IPI00021081	hsa:653	BMP5	IPI00024886	34.548817
hsa:51341	ZBTB7A	IPI00026317	hsa:6670	SP3	IPI00025807	34.548817
hsa:51341	ZBTB7A	IPI00026317	hsa:6671	SP4	IPI00025805	34.548817
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hsa:10272	FSTL3	IPI00025155	hsa:3624	INHBA	IPI00028670	34.548817
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hsa:604	BCL6	IPI00012820	hsa:6667	SP1	IPI00465152	34.548817
hsa:5654	HTRA1	IPI00003176	hsa:8200	GDF5	IPI00015522	34.548817
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hsa:392	ARHGAP1	IPI00020567	hsa:389	RHOC	IPI00027434	33.843739
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hsa:5864	RAB3A	IPI00023504	hsa:5866	RAB3IL1	IPI00328884	33.843739
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hsa:10928	RALBP1	IPI00009544	hsa:5899	RALB	IPI00004397	33.843739
hsa:29127	RACGAP1	IPI00152946	hsa:8153	RND2	IPI00001436	33.843739
hsa:403	ARL3	IPI00003327	hsa:2803	GOLGA4	IPI00013272	33.843739
hsa:51291	GMIP	IPI00292376	hsa:2669	GEM	IPI00022710	33.843739

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hsa:392	ARHGAP1	IPI00020567	hsa:387	RHOA	IPI00478231	33.843739
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hsa:7410	VAV2	IPI00446303	hsa:387	RHOA	IPI00478231	29.522727
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hsa:8874	ARHGEF7	IPI00449906	hsa:5879	RAC1	IPI00010271	29.522727
hsa:7410	VAV2	IPI00446303	hsa:5879	RAC1	IPI00010271	29.522727
hsa:7409	VAV1	IPI00011696	hsa:5879	RAC1	IPI00010271	29.522727
hsa:8874	ARHGEF7	IPI00449906	hsa:998	CDC42	IPI00007189	29.522727
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hsa:7089	TLE2	IPI00297659	hsa:639	PRDM1	IPI00337575	27.639053
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hsa:4163	MCC	IPI00011957	hsa:3954	LETM1	IPI00017592	26.322908
hsa:4627	MYH9	IPI00019502	hsa:6286	S100P	IPI00017526	26.322908
hsa:2803	GOLGA4	IPI00013272	hsa:23499	MACF1	IPI00432363	26.322908
hsa:4628	MYH10	IPI00397526	hsa:6275	S100A4	IPI00032313	26.322908
hsa:4627	MYH9	IPI00019502	hsa:6275	S100A4	IPI00032313	26.322908
hsa:3161	HMMR	IPI00337325	hsa:801	CALM1	unknown	26.322908
hsa:10142	AKAP9	IPI00019223	hsa:808	CALM3	unknown	26.322908
hsa:5116	PCNT	IPI00479143	hsa:805	CALM2801	IPI00075248	26.322908
hsa:85444	LRRCC1	IPI00807727	hsa:826	CAPNS1	IPI00025084	26.322908
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hsa:10142	AKAP9	IPI00019223	hsa:5523	PPP2R3A	IPI00029144	26.322908
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hsa:7253	TSHR	IPI00744312	hsa:2768	GNA12	IPI00328744	25.659599
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hsa:151	ADRA2B	IPI00297315	hsa:2771	GNAI2	IPI00748145	25.659599
hsa:2357	FPR1	IPI00328644	hsa:2771	GNAI2	IPI00748145	25.659599
hsa:134	ADORA1	IPI00026872	hsa:2771	GNAI2	IPI00748145	25.659599
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hsa:7433	VIPR1	IPI00027680	hsa:2776	GNAQ	IPI00288947	25.659599
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hsa:4985	OPRD1	IPI00298305	hsa:2781	GNAZ	IPI00328128	25.659599
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hsa:6347	CCL2	IPI00009308	hsa:1238	CCBP2	IPI00012180	22.100193
hsa:6347	CCL2	IPI00009308	hsa:51554	CCRL1	IPI00014785	22.100193
hsa:6347	CCL2	IPI00009308	hsa:1231	CCR2729230	IPI00015137	22.100193

hsa:6347	CCL2	IPI00009308	hsa:1230	CCR1	IPI00027685	22.100193
hsa:6347	CCL2	IPI00009308	hsa:2826	CCR10	IPI00004346	22.100193
hsa:6352	CCL5	IPI00009309	hsa:1238	CCBP2	IPI00012180	22.100193
hsa:6352	CCL5	IPI00009309	hsa:51554	CCRL1	IPI00014785	22.100193
hsa:6352	CCL5	IPI00009309	hsa:1232	CCR3	IPI00019957	22.100193
hsa:6352	CCL5	IPI00009309	hsa:1230	CCR1	IPI00027685	22.100193
hsa:5473	PPBP	IPI00022445	hsa:3577	IL8RA	IPI00296618	22.100193
hsa:6366	CCL21	IPI00012174	hsa:51554	CCRL1	IPI00014785	22.100193
hsa:6366	CCL21	IPI00012174	hsa:1238	CCBP2	IPI00012180	22.100193
hsa:6366	CCL21	IPI00012174	hsa:1236	CCR7	IPI00027687	22.100193
hsa:3627	CXCL10	IPI00022448	hsa:1232	CCR3	IPI00019957	22.100193
hsa:3627	CXCL10	IPI00022448	hsa:2833	CXCR3	IPI00027754	22.100193
hsa:6375	XCL1	IPI00026979	hsa:2829	XCR1	IPI00004349	22.100193
hsa:6364	CCL20	IPI00020355	hsa:1235	CCR6	IPI00293730	22.100193
hsa:6355	CCL8	IPI00007524	hsa:1238	CCBP2	IPI00012180	22.100193
hsa:6355	CCL8	IPI00007524	hsa:51554	CCRL1	IPI00014785	22.100193
hsa:6355	CCL8	IPI00007524	hsa:1232	CCR3	IPI00019957	22.100193
hsa:6355	CCL8	IPI00007524	hsa:1231	CCR2729230	IPI00015137	22.100193
hsa:6355	CCL8	IPI00007524	hsa:1230	CCR1	IPI00027685	22.100193
hsa:6354	CCL7	IPI00746376	hsa:1238	CCBP2	IPI00012180	22.100193
hsa:6354	CCL7	IPI00746376	hsa:51554	CCRL1	IPI00014785	22.100193
hsa:6354	CCL7	IPI00746376	hsa:1232	CCR3	IPI00019957	22.100193
hsa:6354	CCL7	IPI00746376	hsa:1231	CCR2729230	IPI00015137	22.100193
hsa:6354	CCL7	IPI00746376	hsa:1230	CCR1	IPI00027685	22.100193
hsa:6354	CCL7	IPI00746376	hsa:2826	CCR10	IPI00004346	22.100193
hsa:6357	CCL13	IPI00016914	hsa:1232	CCR3	IPI00019957	22.100193
hsa:6357	CCL13	IPI00016914	hsa:1231	CCR2729230	IPI00015137	22.100193
hsa:6357	CCL13	IPI00016914	hsa:1238	CCBP2	IPI00012180	22.100193
hsa:6357	CCL13	IPI00016914	hsa:51554	CCRL1	IPI00014785	22.100193
hsa:6374	CXCL5	IPI00292936	hsa:3577	IL8RA	IPI00296618	22.100193
hsa:6372	CXCL6	IPI00008079	hsa:3577	IL8RA	IPI00296618	22.100193
hsa:2920	CXCL2	IPI00021067	hsa:3577	IL8RA	IPI00296618	22.100193
hsa:2921	CXCL3	IPI00218180	hsa:3577	IL8RA	IPI00296618	22.100193
hsa:5196	PF4	IPI00022446	hsa:2833	CXCR3	IPI00027754	22.100193
hsa:10563	CXCL13	IPI00015163	hsa:51554	CCRL1	IPI00014785	22.100193
hsa:10563	CXCL13	IPI00015163	hsa:643	BLR1	IPI00027955	22.100193
hsa:10563	CXCL13	IPI00015163	hsa:2833	CXCR3	IPI00027754	22.100193
hsa:6351	CCL4	IPI00007751	hsa:1238	CCBP2	IPI00012180	22.100193
hsa:6351	CCL4	IPI00007751	hsa:1237	CCR8	IPI00019985	22.100193
hsa:6351	CCL4	IPI00007751	hsa:1230	CCR1	IPI00027685	22.100193
hsa:6361	CCL17	IPI00022062	hsa:1237	CCR8	IPI00019985	22.100193
hsa:6376	CX3CL1	IPI00019771	hsa:1524	CX3CR1	IPI00026498	22.100193
hsa:6360	CCL16	IPI00006717	hsa:1237	CCR8	IPI00019985	22.100193
hsa:6370	CCL25	IPI00292032	hsa:10803	CCR9	IPI00009902	22.100193
hsa:6366	CCL21	IPI00012174	hsa:2826	CCR10	IPI00004346	22.100193
hsa:6356	CCL11	IPI00019945	hsa:1234	CCR5	IPI00807387	22.100193
hsa:6351	CCL4	IPI00007751	hsa:1234	CCR5	IPI00807387	22.100193
hsa:6348	CCL3	IPI00019426	hsa:1234	CCR5	IPI00807387	22.100193
hsa:414062	CCL3L36349	IPI00871477	hsa:1234	CCR5	IPI00807387	22.100193
hsa:6355	CCL8	IPI00007524	hsa:1234	CCR5	IPI00807387	22.100193
hsa:6349	CCL3L1	unknown	hsa:1234	CCR5	IPI00807387	22.100193
hsa:6360	CCL16	IPI00006717	hsa:1234	CCR5	IPI00807387	22.100193
hsa:6358	CCL14	IPI00003375	hsa:1234	CCR5	IPI00807387	22.100193
hsa:6357	CCL13	IPI00016914	hsa:1234	CCR5	IPI00807387	22.100193
hsa:6352	CCL5	IPI00009309	hsa:1234	CCR5	IPI00807387	22.100193
hsa:6354	CCL7	IPI00746376	hsa:1234	CCR5	IPI00807387	22.100193
hsa:6347	CCL2	IPI00009308	hsa:1234	CCR5	IPI00807387	22.100193
hsa:6374	CXCL5	IPI00292936	hsa:3579	IL8RB	IPI00012320	22.100193
hsa:5473	PPBP	IPI00022445	hsa:3579	IL8RB	IPI00012320	22.100193
hsa:2919	CXCL1	IPI00013874	hsa:3579	IL8RB	IPI00012320	22.100193

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hsa:2921	CXCL3	IPI00218180	hsa:3579	IL8RB	IPI00012320	22.100193
hsa:2920	CXCL2	IPI00021067	hsa:3579	IL8RB	IPI00012320	22.100193
hsa:6372	CXCL6	IPI00008079	hsa:3579	IL8RB	IPI00012320	22.100193
hsa:6367	CCL22	IPI00299224	hsa:1233	CCR4	IPI00019958	22.100193
hsa:6361	CCL17	IPI00022062	hsa:1233	CCR4	IPI00019958	22.100193
hsa:6348	CCL3	IPI00019426	hsa:1233	CCR4	IPI00019958	22.100193
hsa:6352	CCL5	IPI00009309	hsa:1233	CCR4	IPI00019958	22.100193
hsa:6387	CXCL12	IPI00848299	hsa:7852	CXCR4	IPI00028159	22.100193
hsa:6354	CCL7	IPI00746376	hsa:2532	DARC	IPI00002940	22.100193
hsa:6361	CCL17	IPI00022062	hsa:2532	DARC	IPI00002940	22.100193
hsa:6355	CCL8	IPI00007524	hsa:2532	DARC	IPI00002940	22.100193
hsa:6374	CXCL5	IPI00292936	hsa:2532	DARC	IPI00002940	22.100193
hsa:6352	CCL5	IPI00009309	hsa:2532	DARC	IPI00002940	22.100193
hsa:6347	CCL2	IPI00009308	hsa:2532	DARC	IPI00002940	22.100193
hsa:2919	CXCL1	IPI00013874	hsa:2532	DARC	IPI00002940	22.100193
hsa:56477	CCL28	IPI00016593	hsa:2826	CCR10	IPI00004346	22.100193
hsa:10563	CXCL13	IPI00015163	hsa:2826	CCR10	IPI00004346	22.100193
hsa:6370	CCL25	IPI00292032	hsa:2826	CCR10	IPI00004346	22.100193
hsa:6363	CCL19	IPI00017761	hsa:2826	CCR10	IPI00004346	22.100193
hsa:6351	CCL4	IPI00007751	hsa:1232	CCR3	IPI00019957	22.100193
hsa:6369	CCL24	IPI00010462	hsa:1232	CCR3	IPI00019957	22.100193
hsa:4283	CXCL9	IPI00016534	hsa:1232	CCR3	IPI00019957	22.100193
hsa:6349	CCL3L1	unknown	hsa:1232	CCR3	IPI00019957	22.100193
hsa:6359	CCL15	IPI00003440	hsa:1232	CCR3	IPI00019957	22.100193
hsa:6358	CCL14	IPI00003375	hsa:1232	CCR3	IPI00019957	22.100193
hsa:6356	CCL11	IPI00019945	hsa:1232	CCR3	IPI00019957	22.100193
hsa:56477	CCL28	IPI00016593	hsa:1232	CCR3	IPI00019957	22.100193
hsa:6373	CXCL11	IPI00023056	hsa:1232	CCR3	IPI00019957	22.100193
hsa:10344	CCL26	IPI00031757	hsa:1232	CCR3	IPI00019957	22.100193
hsa:6348	CCL3	IPI00019426	hsa:1232	CCR3	IPI00019957	22.100193
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hsa:6368	CCL23	IPI00026179	hsa:1230	CCR1	IPI00027685	22.100193
hsa:6349	CCL3L1	unknown	hsa:1230	CCR1	IPI00027685	22.100193
hsa:6360	CCL16	IPI00006717	hsa:1230	CCR1	IPI00027685	22.100193
hsa:6359	CCL15	IPI00003440	hsa:1230	CCR1	IPI00027685	22.100193
hsa:6358	CCL14	IPI00003375	hsa:1230	CCR1	IPI00027685	22.100193
hsa:6348	CCL3	IPI00019426	hsa:1230	CCR1	IPI00027685	22.100193
hsa:6370	CCL25	IPI00292032	hsa:51554	CCRL1	IPI00014785	22.100193
hsa:6363	CCL19	IPI00017761	hsa:51554	CCRL1	IPI00014785	22.100193
hsa:6356	CCL11	IPI00019945	hsa:51554	CCRL1	IPI00014785	22.100193
hsa:56477	CCL28	IPI00016593	hsa:1238	CCBP2	IPI00012180	22.100193
hsa:414062	CCL3L36349	IPI00871477	hsa:1238	CCBP2	IPI00012180	22.100193
hsa:6363	CCL19	IPI00017761	hsa:1238	CCBP2	IPI00012180	22.100193
hsa:6370	CCL25	IPI00292032	hsa:1238	CCBP2	IPI00012180	22.100193
hsa:6358	CCL14	IPI00003375	hsa:1238	CCBP2	IPI00012180	22.100193
hsa:6356	CCL11	IPI00019945	hsa:1238	CCBP2	IPI00012180	22.100193
hsa:6348	CCL3	IPI00019426	hsa:1238	CCBP2	IPI00012180	22.100193
hsa:6846	XCL2	IPI00002528	hsa:2829	XCR1	IPI00004349	22.100193
hsa:6346	CCL1	IPI00026221	hsa:1237	CCR8	IPI00019985	22.100193
hsa:6363	CCL19	IPI00017761	hsa:1236	CCR7	IPI00027687	22.100193
hsa:868	CBLB	IPI00292856	hsa:2533	FYB	IPI00446986	21.630563
hsa:868	CBLB	IPI00292856	hsa:30011	SH3KBP1	IPI00294962	21.630563
hsa:868	CBLB	IPI00292856	hsa:10174	SORBS3	IPI00419847	21.630563
hsa:3569	IL6	IPI00007793	hsa:3570	IL6R	IPI00031171	21.536925

hsa:3569	IL6	IPI00007793	hsa:3572	IL6ST	IPI00297124	21.536925
hsa:2688	GH1	unknown	hsa:2690	GHR	IPI00023599	21.536925
hsa:2689	GH2	IPI00000890	hsa:2690	GHR	IPI00023599	21.536925
hsa:51561	IL23A	IPI00300835	hsa:149233	IL23R	IPI00303045	21.536925
hsa:1440	CSF3	IPI00018306	hsa:1441	CSF3R	IPI00012936	21.536925
hsa:1442	CSH1	unknown	hsa:5618	PRLR	IPI00028640	21.536925
hsa:5617	PRL	IPI00873653	hsa:5618	PRLR	IPI00028640	21.536925
hsa:2688	GH1	unknown	hsa:5618	PRLR	IPI00028640	21.536925
hsa:3589	IL11	IPI00025820	hsa:3590	IL11RA	IPI00184319	21.536925
hsa:51561	IL23A	IPI00300835	hsa:3594	IL12RB1	IPI00001400	21.536925
hsa:50619	DEF6	IPI00004924	hsa:387	RHOA	IPI00478231	20.467404
hsa:5333	PLCD1	IPI00746030	hsa:5899	RALB	IPI00004397	20.467404
hsa:50619	DEF6	IPI00004924	hsa:5879	RAC1	IPI00010271	20.467404
hsa:50619	DEF6	IPI00004924	hsa:5880	RAC2	IPI00010270	20.467404
hsa:5333	PLCD1	IPI00746030	hsa:5898	RALA	IPI00217519	20.467404
hsa:50619	DEF6	IPI00004924	hsa:998	CDC42	IPI00007189	20.467404
hsa:4649	MYO9A	IPI00018057	hsa:998	CDC42	IPI00007189	20.306244
hsa:8315	BRAP	IPI00396089	hsa:3265	HRAS	IPI00000006	20.306243
hsa:197131	UBR1	IPI00217405	hsa:54622	ARL15	IPI00005163	20.306243
hsa:197131	UBR1	IPI00217405	hsa:379	ARL4D	IPI00027971	20.306243
hsa:197131	UBR1	IPI00217405	hsa:403	ARL3	IPI00003327	20.306243
hsa:79083	MLPH	IPI00012201	hsa:5874	RAB27B	IPI00010491	20.306243
hsa:9372	ZFYVE9	IPI00030648	hsa:89941	RHOT2	IPI00465059	20.306243
hsa:9146	HGS	IPI00006176	hsa:51552	RAB14	IPI00291928	20.306243
hsa:64145	ZFYVE20	IPI00007057	hsa:5868	RAB5A	IPI00023510	20.306243
hsa:64145	ZFYVE20	IPI00007057	hsa:5867	RAB4A	IPI00480056	20.306243
hsa:80230	RUFY1	IPI00744637	hsa:5867	RAB4A	IPI00480056	20.306243
hsa:197131	UBR1	IPI00217405	hsa:998	CDC42	IPI00007189	20.306243
hsa:79083	MLPH	IPI00012201	hsa:5873	RAB27A	IPI00016381	20.306243
hsa:197131	UBR1	IPI00217405	hsa:379	ARF4L	IPI00027971	20.306243
hsa:197131	UBR1	IPI00217405	hsa:403	ARL3	IPI00003327	20.306243
hsa:197131	UBR1	IPI00217405	hsa:54622	ARFRP2	IPI00005163	20.306243
hsa:197131	UBR1	IPI00217405	hsa:998	CDC42	IPI00007189	20.306243
hsa:5335	PLCG1	IPI00016736	hsa:58480	RHOA	IPI00009644	20.265953
hsa:5335	PLCG1	IPI00016736	hsa:387	RHOA	IPI00478231	20.265953
hsa:8853	DDEF2	IPI00022058	hsa:5901	RAN	IPI00643041	20.265953
hsa:8853	DDEF2	IPI00022058	hsa:382	ARF6	IPI00215920	20.265953
hsa:8853	DDEF2	IPI00022058	hsa:381	ARF5	IPI00215919	20.265953
hsa:8853	DDEF2	IPI00022058	hsa:375	ARF1	IPI00215914	20.265953
hsa:1950	EGF	IPI00000073	hsa:2064	ERBB2	IPI00300384	20.106633
hsa:1839	HBEGF	IPI00012948	hsa:2066	ERBB4	IPI00016371	20.106633
hsa:1839	HBEGF	IPI00012948	hsa:1956	EGFR	IPI00018274	20.106633
hsa:7039	TGFA	IPI00872280	hsa:1956	EGFR	IPI00018274	20.106633
hsa:1950	EGF	IPI00000073	hsa:1956	EGFR	IPI00018274	20.106633
hsa:2069	EREG	IPI00024741	hsa:1956	EGFR	IPI00018274	20.106633
hsa:685	BTC	IPI00015755	hsa:1956	EGFR	IPI00018274	20.106633
hsa:374	AREG727738	IPI00012023	hsa:1956	EGFR	IPI00018274	20.106633
hsa:7039	TGFA	IPI00872280	hsa:2064	ERBB2	IPI00300384	20.106633
hsa:4585	MUC4	IPI00302162	hsa:2064	ERBB2	IPI00300384	20.106633
hsa:685	BTC	IPI00015755	hsa:2064	ERBB2	IPI00300384	20.106633
hsa:685	BTC	IPI00015755	hsa:2066	ERBB4	IPI00016371	20.106633
hsa:7039	TGFA	IPI00872280	hsa:2066	ERBB4	IPI00016371	20.106633
hsa:10718	NRG3	IPI00012044	hsa:2066	ERBB4	IPI00016371	20.106633
hsa:145957	NRG4	IPI00103330	hsa:2066	ERBB4	IPI00016371	20.106633
hsa:2069	EREG	IPI00024741	hsa:2066	ERBB4	IPI00016371	20.106633
hsa:7168	TPM1	IPI00014581	hsa:5311	PKD2	IPI00299040	19.742181
hsa:7168	TPM1	IPI00014581	hsa:6273	S100A2	IPI00019869	19.742181
hsa:7169	TPM2	IPI00013991	hsa:6273	S100A2	IPI00019869	19.742181
hsa:3848	KRT1	IPI00220327	hsa:794	CALB2	IPI00027264	19.742181
hsa:56658	TRIM39	IPI00873841	hsa:84812	PLCD4	IPI00013745	19.742181

hsa:84440	RAB11FIP4	IPI00174771	hsa:9727	RAB11FIP3	IPI00024426	19.742181
hsa:7169	TPM2	IPI00013991	hsa:6275	S100A4	IPI00032313	19.742181
hsa:9472	AKAP6	IPI00297089	hsa:6262	RYR2	IPI00023217	19.742181
hsa:56658	TRIM39	IPI00873841	hsa:84812	PLCD4	IPI00013745	19.742181
hsa:57584	ARHGAP21	IPI00867539	hsa:387	RHOA	IPI00478231	19.722036
hsa:57584	ARHGAP21	IPI00867539	hsa:375	ARF1	IPI00215914	19.722036
hsa:4851	NOTCH1	IPI00412982	hsa:331	BIRC4	IPI00303890	19.664149
hsa:4851	NOTCH1	IPI00412982	hsa:867	CBL	IPI00027269	19.664149
hsa:4851	NOTCH1	IPI00412982	hsa:113878	DTX2	IPI00292746	19.664149
hsa:4851	NOTCH1	IPI00412982	hsa:1840	DTX1	IPI00004554	19.664149
hsa:602	BCL3	IPI00791379	hsa:580	BARD1	IPI00017746	19.664149
hsa:9627	SNCAIP	IPI00002293	hsa:25897	RNF19A	IPI00019056	19.664149
hsa:51676	ASB2	IPI00216028	hsa:9616	RNF7	IPI00033132	19.664149
hsa:28964	GIT1	IPI00384861	hsa:1107	CHD3	IPI00373870	19.664149
hsa:26287	ANKRD2	IPI00418217	hsa:5371	PML	IPI00022348	19.664149
hsa:4790	NFKB1	IPI00788987	hsa:672	BRCA1	IPI00218982	19.664149
hsa:580	BARD1	IPI00017746	hsa:672	BRCA1	IPI00218982	19.664149
hsa:5716	PSMD10	IPI00003565	hsa:4193	MDM2	IPI00025490	19.664149
hsa:1029	CDKN2A	IPI00651662	hsa:4193	MDM2	IPI00025490	19.664149
hsa:4793	NFKB1B	IPI00161119	hsa:4804	NGFR	IPI00027436	19.664149
hsa:57498	KIDINS220	IPI00384909	hsa:4804	NGFR	IPI00027436	19.664149
hsa:28964	GIT1	IPI00384861	hsa:580	BARD1	IPI00017746	19.664149
hsa:4853	NOTCH2	IPI00297655	hsa:1840	DTX1	IPI00004554	19.664149
hsa:9627	SNCAIP	IPI00002293	hsa:6477	SIAH1	IPI00396517	19.664149
hsa:9551	ATP5J2	IPI00220300	hsa:7542	ZFPL1	IPI00296374	19.664149
hsa:140460	ASB7	IPI00385151	hsa:9616	RNF7	IPI00033132	19.664149
hsa:142689	ASB12	IPI00514754	hsa:9616	RNF7	IPI00033132	19.664149
hsa:51665	ASB1	IPI00294946	hsa:9616	RNF7	IPI00033132	19.664149
hsa:140459	ASB6	IPI00016560	hsa:9616	RNF7	IPI00033132	19.664149
hsa:580	BARD1	IPI00017746	hsa:1107	CHD3	IPI00373870	19.664149
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hsa:136319	MTPN	IPI00179589	hsa:7189	TRAF6	IPI00743663	19.664149
hsa:55503	TRPV6	IPI00152950	hsa:4188	MDFI	IPI00023726	19.664149
hsa:22821	RASA3	IPI00032267	hsa:5906	RAP1A	IPI00019345	19.61919
hsa:3083	HGFAC	IPI00029193	hsa:3082	HGF	IPI00025767	19.561284
hsa:7704	ZBTB16	IPI00305613	hsa:7186	TRAF2	IPI00030278	19.527592
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hsa:627	BDNF	IPI00012058	hsa:4915	NTRK2	IPI00003366	18.612157
hsa:4908	NTF3	IPI00025474	hsa:4915	NTRK2	IPI00003366	18.612157
hsa:4908	NTF3	IPI00025474	hsa:4916	NTRK3	IPI00000824	18.612157
hsa:4909	NTF5	IPI00030097	hsa:4915	NTRK2	IPI00003366	18.612157
hsa:627	BDNF	IPI00012058	hsa:4684	NCAM1	IPI00435020	18.612157
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hsa:7048	TGFBR2	IPI00020431	hsa:163	AP2B1	IPI00784156	18.468916
hsa:7048	TGFBR2	IPI00020431	hsa:1499	CTNNB1	IPI00017292	18.468916
hsa:4233	MET	IPI00029273	hsa:1499	CTNNB1	IPI00017292	18.468916
hsa:2241	FER	IPI00029263	hsa:3728	JUP	IPI00554711	18.468916
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hsa:2130	EWSR1	IPI00872855	hsa:138065	RNF183	IPI00177673	18.02547
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hsa:23429	RYBP	IPI00296594	hsa:6045	RNF2	IPI00026993	18.02547
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hsa:801	CALM1	unknown	hsa:5865	RAB3B	IPI00300562	17.727673
hsa:808	CALM3	unknown	hsa:5865	RAB3B	IPI00300562	17.727673
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hsa:9185	REPS2	IPI00382936	hsa:5899	RALB	IPI00004397	17.727673
hsa:85021	REPS1	IPI00337530	hsa:5899	RALB	IPI00004397	17.727673
hsa:6279	S100A8	IPI00007047	hsa:64284	RAB17	IPI00007866	17.727673
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hsa:2260	FGFR1	IPI00005142	hsa:3837	KPNB1	IPI00001639	17.5545
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hsa:7046	TGFBR1	IPI00005733	hsa:4091	SMAD6	IPI00012869	17.330023
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hsa:91	ACVR1B	IPI00005732	hsa:4092	SMAD7	IPI00005079	17.330023
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hsa:91	ACVR1B	IPI00005732	hsa:4087	SMAD2	IPI00019548	17.330023
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hsa:782	CACNB1	IPI00183965	hsa:2669	GEM	IPI00022710	17.324771
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hsa:10451	VAV3	IPI00299763	hsa:5879	RAC1	IPI00010271	17.324771
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hsa:23607	CD2AP	IPI00412771	hsa:5867	RAB4A	IPI00480056	17.324771
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hsa:782	CACNB1	IPI00183965	hsa:28954	REM1	IPI00289912	17.324771
hsa:785	CACNB4	IPI00876906	hsa:28954	REM1	IPI00289912	17.324771
hsa:783	CACNB2	IPI00000867	hsa:28954	REM1	IPI00289912	17.324771
hsa:10458	BAIAP2	IPI00299088	hsa:998	CDC42	IPI00007189	17.324771
hsa:274	BIN1	IPI00186966	hsa:5906	RAP1A	IPI00019345	17.324771

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hsa:5594	MAPK1	IPI00003479	hsa:7157	TP53	IPI00025087	16.171787
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hsa:983	CDC2	IPI00073536	hsa:7157	TP53	IPI00025087	16.171787
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hsa:25	ABL129892	IPI00216969	hsa:7161	TP73	IPI00006160	16.171787
hsa:1017	CDK2	IPI00031681	hsa:7161	TP73	IPI00006160	16.171787
hsa:983	CDC2	IPI00073536	hsa:7161	TP73	IPI00006160	16.171787
hsa:11200	CHEK2	IPI00014072	hsa:7157	TP53	IPI00025087	16.171787
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hsa:660	BMX	IPI00020899	hsa:7157	TP53	IPI00025087	16.171787
hsa:394	ARHGAP5	IPI00013988	hsa:390	RND3	IPI00001437	16.128657
hsa:8826	IQGAP1	IPI00009342	hsa:998	CDC42	IPI00007189	16.031245
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hsa:998	CDC42	IPI00007189	hsa:56924	PAK6	IPI00024584	15.788264
hsa:998	CDC42	IPI00007189	hsa:57144	PAK7	IPI00001814	15.788264
hsa:998	CDC42	IPI00007189	hsa:10298	PAK4	IPI00014068	15.788264
hsa:998	CDC42	IPI00007189	hsa:5062	PAK2	IPI00787208	15.788264

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hsa:5335	PLCG1	IPI00016736	hsa:28964	GIT1	IPI00384861	12.338863
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hsa:5295	PIK3R1	IPI00021448	hsa:9743	RICS	IPI00334294	12.01698
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hsa:998	CDC42	IPI00007189	hsa:8476	CDC42BPA	IPI00640468	11.600279
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hsa:5774	PTPN3	IPI00289649	hsa:919	CD247	IPI00218634	11.596806
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hsa:4591	TRIM37	IPI00016619	hsa:55872	PBK	IPI00306708	11.409739
hsa:7187	TRAF3	IPI00297473	hsa:9020	MAP3K14	IPI00016099	11.409739
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hsa:5771	PTPN2	IPI00219695	hsa:6776	STAT5A	IPI00030783	11.361508
hsa:5777	PTPN6	IPI00218604	hsa:29760	BLNK	IPI00002434	11.361508
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hsa:9047	SH2D2A	IPI00099806	hsa:5335	PLCG1	IPI00016736	11.089956
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hsa:10750	GRAP	IPI00013864	hsa:9743	RICS	IPI00334294	10.944035
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hsa:5781	PTPN11	IPI00658023	hsa:5335	PLCG1	IPI00016736	10.826429
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hsa:355	FAS	IPI00744894	hsa:8717	TRADD	IPI00018744	10.293165
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hsa:2534	FYN	IPI00219012	hsa:1266	CNN3	IPI00216682	9.87109
hsa:4294	MAP3K10	IPI00295401	hsa:29127	RACGAP1	IPI00152946	9.87109
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hsa:51678	MPP6	IPI00303280	hsa:93663	ARHGAP18	IPI00296353	9.87109
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hsa:7082	TJP1	IPI00216219	hsa:2316	FLNA	IPI00333541	9.87109
hsa:6455	SH3GL1	IPI00019169	hsa:23779	ARHGAP8	IPI00868745	9.87109
hsa:5781	PTPN11	IPI00658023	hsa:613	BCR	IPI00004497	9.763104
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hsa:389	RHOC	IPI00027434	hsa:6093	ROCK1	IPI00022542	9.754257
hsa:387	RHOA	IPI00478231	hsa:6093	ROCK1	IPI00022542	9.754257
hsa:4356	MPP3	IPI00419337	hsa:11031	RAB31	IPI00014376	9.720002
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hsa:7204	TRIO	IPI00442035	hsa:2316	FLNA	IPI00333541	9.673669
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hsa:1399	CRKL	IPI00004839	hsa:1600	DAB1	IPI00514638	9.613584
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hsa:3371	TNC	IPI00031008	hsa:1956	EGFR	IPI00018274	9.254424
hsa:7006	TEC	IPI00000878	hsa:1796	DOK1	IPI00015287	9.251111
hsa:2887	GRB10	IPI00012752	hsa:4734	NEDD4	IPI00009322	9.235907
hsa:867	CBL	IPI00027269	hsa:3791	KDR	IPI00021396	9.204496
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hsa:867	CBL	IPI00027269	hsa:1436	CSF1R	IPI00011218	9.204496
hsa:867	CBL	IPI00027269	hsa:3815	KIT	IPI00022296	9.204496

hsa:867	CBL	IPI00027269	hsa:5159	PDGFRB	IPI00015902	9.204496
hsa:867	CBL	IPI00027269	hsa:1969	EPHA2	IPI00021267	9.204496
hsa:6714	SRC	IPI00641230	hsa:2909	GRLF1	IPI00334715	9.195643
hsa:156	ADRBK1	IPI00012497	hsa:9815	GIT2	IPI00238218	9.174195
hsa:156	ADRBK1	IPI00012497	hsa:28964	GIT1	IPI00384861	9.174195
hsa:157	ADRBK2	IPI00019926	hsa:28964	GIT1	IPI00384861	9.174195
hsa:7409	VAV1	IPI00011696	hsa:29127	RACGAP1	IPI00152946	9.171845
hsa:4690	NCK1	IPI00028065	hsa:1124	CHN2	IPI00428671	9.171845
hsa:3718	JAK3	IPI00002773	hsa:6774	STAT3	IPI00784414	9.046826
hsa:6850	SYK	IPI00018597	hsa:6774	STAT3	IPI00784414	9.046826
hsa:2242	FES	IPI00294344	hsa:6774	STAT3	IPI00784414	9.046826
hsa:2241	FER	IPI00029263	hsa:6774	STAT3	IPI00784414	9.046826
hsa:3717	JAK2	IPI00031016	hsa:6774	STAT3	IPI00784414	9.046826
hsa:3716	JAK1	IPI00443765	hsa:6774	STAT3	IPI00784414	9.046826
hsa:7297	TYK2	IPI00022353	hsa:6772	STAT1	IPI00030781	9.046826
hsa:3716	JAK1	IPI00443765	hsa:6778	STAT6	IPI00030782	9.046825
hsa:3716	JAK1	IPI00443765	hsa:6776	STAT5A	IPI00030783	9.046825
hsa:3716	JAK1	IPI00443765	hsa:6773	STAT2	IPI00004312	9.046825
hsa:3716	JAK1	IPI00443765	hsa:6772	STAT1	IPI00030781	9.046825
hsa:3717	JAK2	IPI00031016	hsa:6777	STAT5B	IPI00103415	9.046825
hsa:3717	JAK2	IPI00031016	hsa:6773	STAT2	IPI00004312	9.046825
hsa:3717	JAK2	IPI00031016	hsa:6776	STAT5A	IPI00030783	9.046825
hsa:3717	JAK2	IPI00031016	hsa:6772	STAT1	IPI00030781	9.046825
hsa:6850	SYK	IPI00018597	hsa:6772	STAT1	IPI00030781	9.046825
hsa:6850	SYK	IPI00018597	hsa:6776	STAT5A	IPI00030783	9.046825
hsa:3718	JAK3	IPI00002773	hsa:6776	STAT5A	IPI00030783	9.046825
hsa:7297	TYK2	IPI00022353	hsa:6773	STAT2	IPI00004312	9.046825
hsa:3911	LAMA5	IPI00783665	hsa:4059	BCAM	IPI00002406	8.986096
hsa:80781	COL18A1	IPI00022822	hsa:3791	KDR	IPI00021396	8.986096
hsa:1297	COL9A1	IPI00874229	hsa:4099	MAG	IPI00026237	8.986096
hsa:6462	SHBG	IPI00023019	hsa:6405	SEMA3F	IPI00298003	8.986096
hsa:5788	PTPRC	IPI00844079	hsa:8631	SKAP1	IPI00289536	8.973719
hsa:5786	PTPRA	IPI00221067	hsa:9564	BCAR1	IPI00872386	8.973719
hsa:5770	PTPN1	IPI00297261	hsa:9564	BCAR1	IPI00872386	8.973719
hsa:5782	PTPN12	IPI00289082	hsa:10278	EFS	IPI00011652	8.973719
hsa:5782	PTPN12	IPI00289082	hsa:9051	PSTPIP1	IPI00022606	8.973719
hsa:5782	PTPN12	IPI00289082	hsa:4739	NEDD9	IPI00031407	8.973719
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hsa:26469	PTPN18	IPI00152019	hsa:9051	PSTPIP1	IPI00022606	8.973719
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hsa:5794	PTPRH	IPI00760988	hsa:9564	BCAR1	IPI00872386	8.973719
hsa:6279	S100A8	IPI00007047	hsa:79705	LRRK1	IPI00747813	8.968848
hsa:9542	NRG2	IPI00477848	hsa:2066	ERBB4	IPI00016371	8.950617
hsa:3554	IL1R1	IPI00027508	hsa:3656	IRAK2	IPI00304986	8.821589
hsa:59307	SIGIRR	IPI00029155	hsa:3654	IRAK1	IPI00293652	8.821589
hsa:1019	CDK4	IPI00007811	hsa:7917	BAT3	IPI00465128	8.820974
hsa:7046	TGFBR1	IPI00005733	hsa:6233	RPS27A7316	IPI00654754	8.820974
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hsa:7046	TGFBR1	IPI00005733	hsa:1147	CHUK	IPI00005104	8.820974
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hsa:7046	TGFBR1	IPI00005733	hsa:7314	UBB	unknown	8.820974
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hsa:4233	MET	IPI00029273	hsa:573	BAG1	IPI00300531	8.820974
hsa:5610	EIF2AK2	IPI00019463	hsa:1147	CHUK	IPI00005104	8.820974
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hsa:6850	SYK	IPI00018597	hsa:7314	UBB	unknown	8.820974
hsa:1956	EGFR	IPI00018274	hsa:7314	UBB	unknown	8.820974
hsa:5747	PTK2	IPI00012885	hsa:4738	NEDD8	IPI00020008	8.820974
hsa:5747	PTK2	IPI00012885	hsa:9821	RB1CC1	IPI00783392	8.820974
hsa:90	ACVR1	IPI00029219	hsa:7311	UBA52	IPI00385127	8.820974

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hsa:4067	LYN	IPI00298625	hsa:7314	UBB	unknown	8.820974
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hsa:5894	RAF1	IPI00021786	hsa:573	BAG1	IPI00300531	8.820974
hsa:5127	PCTK1	IPI00442129	hsa:7917	BAT3	IPI00465128	8.820974
hsa:5159	PDGFRB	IPI00015902	hsa:573	BAG1	IPI00300531	8.820974
hsa:2185	PTK2B	IPI00029702	hsa:9821	RB1CC1	IPI00783392	8.820974
hsa:8573	CASK	IPI00514301	hsa:5071	PARK2	IPI00005254	8.820974
hsa:23139	MAST2	IPI00514071	hsa:6233	RPS27A7316	IPI00654754	8.820974
hsa:57396	CLK4	IPI00180143	hsa:59286	UBL5	IPI00013241	8.820974
hsa:156	ADRBK1	IPI00012497	hsa:7314	UBB	unknown	8.820974
hsa:11035	RIPK3	IPI00294938	hsa:7314	UBB	unknown	8.820974
hsa:4215	MAP3K3	IPI00017801	hsa:7316	UBC	unknown	8.820974
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hsa:4215	MAP3K3	IPI00017801	hsa:8266	UBL4A	IPI00005658	8.820974
hsa:5979	RET	IPI00013983	hsa:2197	FAU	IPI00397098	8.820974
hsa:9641	IKBKE	IPI00029045	hsa:10291	SF3A1	IPI00017451	8.820974
hsa:23097	CDC2L6	IPI00250316	hsa:9821	RB1CC1	IPI00783392	8.820974
hsa:3611	ILK	IPI00013219	hsa:10291	SF3A1	IPI00017451	8.820974
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hsa:4914	NTRK1	IPI00025076	hsa:7314	UBB	unknown	8.820974
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hsa:8997	KALRN	IPI00877065	hsa:6612	SUM03	IPI00299147	8.820974
hsa:9020	MAP3K14	IPI00016099	hsa:1147	CHUK	IPI00005104	8.820974
hsa:6885	MAP3K7	IPI00295738	hsa:1147	CHUK	IPI00005104	8.820974
hsa:1326	MAP3K8	IPI00298726	hsa:1147	CHUK	IPI00005104	8.820974
hsa:29110	TBK1	IPI00293613	hsa:3551	IKBKB	IPI00024709	8.820974
hsa:9020	MAP3K14	IPI00016099	hsa:3551	IKBKB	IPI00024709	8.820974
hsa:9175	MAP3K13	IPI00006192	hsa:3551	IKBKB	IPI00024709	8.820974
hsa:9451	EIF2AK3	IPI00303053	hsa:3551	IKBKB	IPI00024709	8.820974
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hsa:9020	MAP3K14	IPI00016099	hsa:2197	FAU	IPI00397098	8.820974
hsa:1017	CDK2	IPI00031681	hsa:4738	NEDD8	IPI00020008	8.820974
hsa:2932	GSK3B	IPI00028570	hsa:10291	SF3A1	IPI00017451	8.820974
hsa:1019	CDK4	IPI00007811	hsa:7917	BAT3	IPI00465128	8.820974
hsa:30011	SH3KBP1	IPI00294962	hsa:50807	DDEF1	IPI00410303	8.794244
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hsa:30011	SH3KBP1	IPI00294962	hsa:8853	DDEF2	IPI00022058	8.794244
hsa:29763	PACSIN3	IPI00329572	hsa:8853	DDEF2	IPI00022058	8.794244
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hsa:2017	CTTN	IPI00029601	hsa:50807	DDEF1	IPI00410303	8.794244
hsa:81	ACTN4	IPI00013808	hsa:89	ACTN3	IPI00032137	8.774303
hsa:88	ACTN2	IPI00019884	hsa:89	ACTN3	IPI00032137	8.774303
hsa:801	CALM1	unknown	hsa:5470	PPEF2	IPI00784130	8.774303
hsa:801	CALM1	unknown	hsa:5475	PPEF1	IPI00221149	8.774303
hsa:808	CALM3	unknown	hsa:5470	PPEF2	IPI00784130	8.774303
hsa:808	CALM3	unknown	hsa:5475	PPEF1	IPI00221149	8.774303
hsa:51806	CALML5	IPI00021536	hsa:5531	PPP4C	IPI00012833	8.774303
hsa:805	CALM2801	IPI00075248	hsa:5475	PPEF1	IPI00221149	8.774303
hsa:805	CALM2801	IPI00075248	hsa:5470	PPEF2	IPI00784130	8.774303
hsa:5534	PPP3R1	IPI00027464	hsa:5530	PPP3CA	IPI00179415	8.774303

hsa:5523	PPP2R3A	IPI00029144	hsa:5536	PPP5C	IPI00019812	8.774303
hsa:8767	RIPK2	IPI00021917	hsa:4804	NGFR	IPI00027436	8.612487
hsa:25	ABL129892	IPI00216969	hsa:8936	WASF1	IPI00022007	8.460935
hsa:23268	DNMBP	IPI00174025	hsa:147179	WIPF2	IPI00435947	8.460935
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hsa:8440	NCK2	IPI00306531	hsa:147179	WIPF2	IPI00435947	8.460935
hsa:51225	ABI3	IPI00009273	hsa:10163	WASF2	IPI00472164	8.460935
hsa:1399	CRKL	IPI00004839	hsa:7456	WIPF1	IPI00418328	8.460935
hsa:4690	NCK1	IPI00028065	hsa:7456	WIPF1	IPI00418328	8.460935
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hsa:9051	PSTPIP1	IPI00022606	hsa:8936	WASF1	IPI00022007	8.460935
hsa:10006	ABI1	IPI00431025	hsa:8936	WASF1	IPI00022007	8.460935
hsa:4690	NCK1	IPI00028065	hsa:8936	WASF1	IPI00022007	8.460935
hsa:2534	FYN	IPI00219012	hsa:8936	WASF1	IPI00022007	8.460935
hsa:2885	GRB2	IPI00021327	hsa:8936	WASF1	IPI00022007	8.460935
hsa:5296	PIK3R2	IPI00011736	hsa:10810	WASF3	IPI00299003	8.460935
hsa:10458	BAIAP2	IPI00299088	hsa:10163	WASF2	IPI00472164	8.460935
hsa:29993	PACSIN1	IPI00011515	hsa:10163	WASF2	IPI00472164	8.460935
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hsa:1793	DOCK1	IPI00015286	hsa:10163	WASF2	IPI00472164	8.460935
hsa:695	BTK	IPI00029132	hsa:10163	WASF2	IPI00472164	8.460935
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hsa:2885	GRB2	IPI00021327	hsa:10163	WASF2	IPI00472164	8.460935
hsa:2887	GRB10	IPI00012752	hsa:613	BCR	IPI00004497	8.334357
hsa:10507	SEMA4D	IPI00023807	hsa:5364	PLXNB1	IPI00455329	8.303179
hsa:8482	SEMA7A	IPI00025257	hsa:10154	PLXNC1	IPI00024766	8.303179
hsa:9723	SEMA3E	IPI00004494	hsa:23129	PLXND1	IPI00412492	8.303179
hsa:998	CDC42	IPI00007189	hsa:23048	FNBP1	IPI00807625	8.259484
hsa:998	CDC42	IPI00007189	hsa:9322	TRIP10	IPI00168849	8.259484
hsa:23433	RHOQ	IPI00012511	hsa:9322	TRIP10	IPI00168849	8.259484
hsa:8153	RND2	IPI00001436	hsa:23048	FNBP1	IPI00807625	8.259484
hsa:5781	PTPN11	IPI00658023	hsa:6654	SOS1	IPI00020131	8.230247
hsa:6464	SHC1	IPI00645103	hsa:6655	SOS2	IPI00020134	8.230247
hsa:6464	SHC1	IPI00645103	hsa:6654	SOS1	IPI00020131	8.230247
hsa:2885	GRB2	IPI00021327	hsa:613	BCR	IPI00004497	8.217025
hsa:5795	PTPRJ	IPI00847732	hsa:5335	PLCG1	IPI00016736	8.214204
hsa:5788	PTPRC	IPI00844079	hsa:2885	GRB2	IPI00021327	8.214204
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hsa:80329	ULBP1	IPI00018861	hsa:8302	KLRC4	IPI00307816	8.206695
hsa:2159	F10	IPI00019576	hsa:5340	PLG	IPI00019580	8.175675
hsa:55620	STAP2	IPI00383883	hsa:6777	STAT5B	IPI00103415	8.141027
hsa:55620	STAP2	IPI00383883	hsa:6776	STAT5A	IPI00030783	8.141027
hsa:55620	STAP2	IPI00383883	hsa:6774	STAT3	IPI00784414	8.141027
hsa:7057	THBS1	IPI00296099	hsa:4041	LRP5	IPI00744811	8.129133
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hsa:5338	PLD2	IPI00024727	hsa:87	ACTN1	IPI00013508	8.122498
hsa:8711	TNK1	IPI00022633	hsa:5335	PLCG1	IPI00016736	8.065543
hsa:5781	PTPN11	IPI00658023	hsa:1399	CRKL	IPI00004839	8.037331
hsa:5781	PTPN11	IPI00658023	hsa:2885	GRB2	IPI00021327	8.037331
hsa:5777	PTPN6	IPI00218604	hsa:2885	GRB2	IPI00021327	8.037331
hsa:55072	RNF31	IPI00094740	hsa:10616	RBCK1	IPI00010748	8.01132
hsa:3716	JAK1	IPI00443765	hsa:5321	PLA2G4A	IPI00026108	8.007271
hsa:79705	LRRK1	IPI00747813	hsa:10298	PAK4	IPI00014068	7.90924
hsa:30837	SOCS7	IPI00022329	hsa:5296	PIK3R2	IPI00011736	7.896873
hsa:8651	SOCS1	IPI00021491	hsa:5296	PIK3R2	IPI00011736	7.896873
hsa:9306	SOCS6	IPI00297351	hsa:5296	PIK3R2	IPI00011736	7.896873
hsa:6712	SPTBN2	IPI00012645	hsa:10497	UNC13B	IPI00478689	7.896872
hsa:8471	IRS4	IPI00020729	hsa:5290	PIK3CA	IPI00031386	7.896872

hsa:8660	IRS2	IPI00464978	hsa:5290	PIK3CA	IPI00031386	7.896872
hsa:51177	PLEKH01	IPI00016877	hsa:57154	SMURF1	IPI00217054	7.896872
hsa:26060	APPL1	IPI00015836	hsa:5290	PIK3CA	IPI00031386	7.896872
hsa:6242	RTKN	IPI00029834	hsa:57154	SMURF1	IPI00217054	7.896872
hsa:23612	PHLDA3	IPI00329599	hsa:55841	WWC3	IPI00395925	7.896872
hsa:6711	SPTBN1	IPI00005614	hsa:8904	CPNE1	IPI00018452	7.896872
hsa:6711	SPTBN1	IPI00005614	hsa:131034	CPNE4	IPI00059186	7.896872
hsa:55843	ARHGAP15	IPI00182116	hsa:57154	SMURF1	IPI00217054	7.896872
hsa:5788	PTPRC	IPI00844079	hsa:3937	LCP2	IPI00297169	7.834447
hsa:868	CBLB	IPI00292856	hsa:8853	DDEF2	IPI00022058	7.804794
hsa:868	CBLB	IPI00292856	hsa:50807	DDEF1	IPI00410303	7.804794
hsa:26469	PTPN18	IPI00152019	hsa:7006	TEC	IPI00000878	7.756829
hsa:5771	PTPN2	IPI00219695	hsa:6714	SRC	IPI00641230	7.756829
hsa:26469	PTPN18	IPI00152019	hsa:6714	SRC	IPI00641230	7.756829
hsa:26469	PTPN18	IPI00152019	hsa:25	ABL129892	IPI00216969	7.756829
hsa:5782	PTPN12	IPI00289082	hsa:25	ABL129892	IPI00216969	7.756829
hsa:26469	PTPN18	IPI00152019	hsa:1445	CSK	IPI00013212	7.756829
hsa:5782	PTPN12	IPI00289082	hsa:1445	CSK	IPI00013212	7.756829
hsa:6452	SH3BP2	IPI00218997	hsa:5336	PLCG2	IPI00329185	7.744085
hsa:27071	DAPP1	IPI00384620	hsa:5335	PLCG1	IPI00016736	7.744085
hsa:6452	SH3BP2	IPI00218997	hsa:5335	PLCG1	IPI00016736	7.744085
hsa:27071	DAPP1	IPI00384620	hsa:5336	PLCG2	IPI00329185	7.744085
hsa:7057	THBS1	IPI00296099	hsa:182	JAG1	IPI00099650	7.739154
hsa:3084	NRG1	IPI00296902	hsa:2065	ERBB3	IPI00298285	7.73481
hsa:5310	PKD1	IPI00409566	hsa:55729	ATF7IP	IPI00795654	7.691759
hsa:5310	PKD1	IPI00409566	hsa:2335	FN1	IPI00022418	7.691759
hsa:116844	LRG1	IPI00022417	hsa:2335	FN1	IPI00022418	7.691759
hsa:5549	PRELP	IPI00020987	hsa:2335	FN1	IPI00022418	7.691759
hsa:1634	DCN	IPI00012119	hsa:2335	FN1	IPI00022418	7.691759
hsa:55914	ERBB2IP	IPI00438286	hsa:3691	ITGB4	IPI00027422	7.691759
hsa:8125	ANP32A	IPI00025849	hsa:5788	PTPRC	IPI00844079	7.691759
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hsa:6464	SHC1	IPI00645103	hsa:5335	PLCG1	IPI00016736	7.639366
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hsa:4739	NEDD9	IPI00031407	hsa:64780	MICAL1	IPI00157757	7.627661
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hsa:5781	PTPN11	IPI00658023	hsa:8471	IRS4	IPI00020729	7.622199
hsa:5781	PTPN11	IPI00658023	hsa:8660	IRS2	IPI00464978	7.622199
hsa:5781	PTPN11	IPI00658023	hsa:3667	IRS1	IPI00019471	7.622199
hsa:6464	SHC1	IPI00645103	hsa:1796	DOK1	IPI00015287	7.622199
hsa:6464	SHC1	IPI00645103	hsa:9846	GAB2	IPI00186990	7.622199
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hsa:6464	SHC1	IPI00645103	hsa:3667	IRS1	IPI00019471	7.622199
hsa:5295	PIK3R1	IPI00021448	hsa:1759	DNM1	IPI00873844	7.622199
hsa:5295	PIK3R1	IPI00021448	hsa:139716	GAB3	IPI00103456	7.622199
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hsa:5295	PIK3R1	IPI00021448	hsa:2549	GAB1	IPI00031068	7.622199
hsa:5295	PIK3R1	IPI00021448	hsa:8471	IRS4	IPI00020729	7.622199
hsa:5295	PIK3R1	IPI00021448	hsa:8660	IRS2	IPI00464978	7.622199
hsa:5777	PTPN6	IPI00218604	hsa:8660	IRS2	IPI00464978	7.622199
hsa:5777	PTPN6	IPI00218604	hsa:9846	GAB2	IPI00186990	7.622199
hsa:5777	PTPN6	IPI00218604	hsa:8471	IRS4	IPI00020729	7.622199
hsa:5777	PTPN6	IPI00218604	hsa:1796	DOK1	IPI00015287	7.622199
hsa:9021	SOCS3	IPI00297349	hsa:8660	IRS2	IPI00464978	7.622199
hsa:4068	SH2D1A	IPI00032401	hsa:1796	DOK1	IPI00015287	7.622199

hsa:8651	SOCS1	IPI00021491	hsa:8660	IRS2	IPI00464978	7.622199
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hsa:3635	INPP5D646743	IPI00329213	hsa:1796	DOK1	IPI00015287	7.622199
hsa:3635	INPP5D646743	IPI00329213	hsa:79930	DOK3	IPI00156649	7.622199
hsa:30837	SOCS7	IPI00022329	hsa:8660	IRS2	IPI00464978	7.622199
hsa:2887	GRB10	IPI00012752	hsa:1796	DOK1	IPI00015287	7.622199
hsa:2888	GRB14	IPI00030917	hsa:3667	IRS1	IPI00019471	7.622199
hsa:8503	PIK3R3	IPI00513745	hsa:3667	IRS1	IPI00019471	7.622199
hsa:9021	SOCS3	IPI00297349	hsa:3667	IRS1	IPI00019471	7.622199
hsa:8651	SOCS1	IPI00021491	hsa:3667	IRS1	IPI00019471	7.622199
hsa:5295	PIK3R1	IPI00021448	hsa:3667	IRS1	IPI00019471	7.622199
hsa:3635	INPP5D646743	IPI00329213	hsa:2549	GAB1	IPI00031068	7.622199
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hsa:9306	SOCS6	IPI00297351	hsa:8471	IRS4	IPI00020729	7.622199
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hsa:8503	PIK3R3	IPI00513745	hsa:8660	IRS2	IPI00464978	7.622199
hsa:9306	SOCS6	IPI00297351	hsa:8660	IRS2	IPI00464978	7.622199
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hsa:5777	PTPN6	IPI00218604	hsa:919	CD247	IPI00218634	7.462293
hsa:10750	GRAP	IPI00013864	hsa:5335	PLCG1	IPI00016736	7.446236
hsa:4690	NCK1	IPI00028065	hsa:5335	PLCG1	IPI00016736	7.446236
hsa:10451	VAV3	IPI00299763	hsa:5335	PLCG1	IPI00016736	7.446236
hsa:2885	GRB2	IPI00021327	hsa:5335	PLCG1	IPI00016736	7.446236
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hsa:5771	PTPN2	IPI00219695	hsa:3718	JAK3	IPI00002773	7.351199
hsa:6712	SPTBN2	IPI00012645	hsa:6708	SPTA1	IPI00220741	7.324976
hsa:6711	SPTBN1	IPI00005614	hsa:6709	SPTAN1	IPI00844215	7.324976
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hsa:5295	PIK3R1	IPI00021448	hsa:5921	RASA1	IPI00026262	7.324635
hsa:9021	SOCS3	IPI00297349	hsa:5921	RASA1	IPI00026262	7.324635
hsa:3717	JAK2	IPI00031016	hsa:613	BCR	IPI00004497	7.273233
hsa:2242	FES	IPI00294344	hsa:613	BCR	IPI00004497	7.273233
hsa:2885	GRB2	IPI00021327	hsa:5287	PIK3C2B	IPI00292056	7.261689
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hsa:3107	HLA-C3106	IPI00004657	hsa:3803	KIR2DL2	IPI00019883	7.258001
hsa:3107	HLA-C3106	IPI00004657	hsa:3804	KIR2DL3	IPI00719576	7.258001
hsa:3107	HLA-C3106	IPI00004657	hsa:3809	KIR2DS4	IPI00816305	7.258001
hsa:3107	HLA-C3106	IPI00004657	hsa:3807	KIR2DS2	IPI00873250	7.258001
hsa:3107	HLA-C3106	IPI00004657	hsa:3806	KIR2DS1	unknown	7.258001
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hsa:5058	PAK1	IPI00656138	hsa:658	BMPRI1B	IPI00010862	7.217161
hsa:5058	PAK1	IPI00656138	hsa:984	CDC2L1	IPI00215999	7.217161
hsa:5058	PAK1	IPI00656138	hsa:9943	OXSRI	IPI00010080	7.217161
hsa:5058	PAK1	IPI00656138	hsa:5170	PDPK1	IPI00002538	7.217161
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hsa:5062	PAK2	IPI00787208	hsa:8569	MKNK1	IPI00304048	7.217161
hsa:5058	PAK1	IPI00656138	hsa:7046	TGFBR1	IPI00005733	7.217161

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hsa:5062	PAK2	IPI00787208	hsa:5595	MAPK3	IPI00018195	7.217161
hsa:5058	PAK1	IPI00656138	hsa:1020	CDK5	IPI00023530	7.217161
hsa:5058	PAK1	IPI00656138	hsa:90	ACVR1	IPI00029219	7.217161
hsa:5058	PAK1	IPI00656138	hsa:9641	IKBKE	IPI00029045	7.217161
hsa:5791	PTPRE	IPI00334825	hsa:7525	YES1	IPI00013981	7.121488
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hsa:11099	PTPN21	IPI00004388	hsa:6714	SRC	IPI00641230	7.121488
hsa:5770	PTPN1	IPI00297261	hsa:6714	SRC	IPI00641230	7.121488
hsa:5786	PTPRA	IPI00221067	hsa:6714	SRC	IPI00641230	7.121488
hsa:5791	PTPRE	IPI00334825	hsa:2534	FYN	IPI00219012	7.121488
hsa:5786	PTPRA	IPI00221067	hsa:2534	FYN	IPI00219012	7.121488
hsa:84867	PTPN5	IPI00008837	hsa:2534	FYN	IPI00219012	7.121488
hsa:26191	PTPN22	IPI00219138	hsa:1445	CSK	IPI00013212	7.121488
hsa:11099	PTPN21	IPI00004388	hsa:7006	TEC	IPI00000878	7.121488
hsa:3055	HCK	IPI00646510	hsa:613	BCR	IPI00004497	7.05422
hsa:6714	SRC	IPI00641230	hsa:613	BCR	IPI00004497	7.05422
hsa:25	ABL129892	IPI00216969	hsa:613	BCR	IPI00004497	7.05422
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hsa:5584	PRKCI	IPI00016639	hsa:56288	PARD3	IPI00154915	6.895014
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hsa:6196	RPS6KA2	IPI00300321	hsa:9223	MAGI1	IPI00470759	6.895014
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hsa:23678	SGK3	IPI00655852	hsa:9351	SLC9A3R2	IPI00385034	6.895014
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hsa:4651	MYO10	IPI00289258	hsa:801	CALM1	unknown	6.768748
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hsa:54453	RIN2	IPI00549715	hsa:5878	RAB5C	IPI00016339	6.768748
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hsa:84033	OBSCN	IPI00288940	hsa:801	CALM1	unknown	6.768748
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hsa:9459	ARHGEF6	IPI00014256	hsa:826	CAPNS1	IPI00025084	6.768748
hsa:9770	RASSF2	IPI00414179	hsa:3265	HRAS	IPI00000006	6.768748
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hsa:83593	RASSF5	IPI00332633	hsa:22800	RRAS2	IPI00012512	6.768748
hsa:9610	RIN1	IPI00014454	hsa:22800	RRAS2	IPI00012512	6.768748
hsa:54922	RASIP1	IPI00015805	hsa:5906	RAP1A	IPI00019345	6.768748
hsa:1609	DGKQ	IPI00005565	hsa:387	RHOA	IPI00478231	6.768748
hsa:54922	RASIP1	IPI00015805	hsa:6237	RRAS	IPI00020418	6.768748
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hsa:5878	RAB5C	IPI00016339	hsa:8411	EEA1	IPI00329536	6.768748
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hsa:84033	OBSCN	IPI00288940	hsa:808	CALM3	unknown	6.768748
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hsa:11099	PTPN21	IPI00004388	hsa:660	BMX	IPI00020899	6.65843
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hsa:4690	NCK1	IPI00028065	hsa:8874	ARHGEF7	IPI00449906	6.620304
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hsa:7186	TRAF2	IPI00030278	hsa:9020	MAP3K14	IPI00016099	6.595756
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hsa:7186	TRAF2	IPI00030278	hsa:4217	MAP3K5	IPI00412433	6.595756
hsa:7186	TRAF2	IPI00030278	hsa:23043	TNIK	IPI00145805	6.595756
hsa:7186	TRAF2	IPI00030278	hsa:1025	CDK9	IPI00301923	6.595756
hsa:7186	TRAF2	IPI00030278	hsa:51347	TAOK3	IPI00410485	6.595756
hsa:7186	TRAF2	IPI00030278	hsa:11035	RIPK3	IPI00294938	6.595756
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hsa:7189	TRAF6	IPI00743663	hsa:1326	MAP3K8	IPI00298726	6.595756

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hsa:7189	TRAF6	IPI00743663	hsa:4215	MAP3K3	IPI00017801	6.595756
hsa:7189	TRAF6	IPI00743663	hsa:55437	ALS2CR2	IPI00032099	6.595756
hsa:7189	TRAF6	IPI00743663	hsa:23139	MAST2	IPI00514071	6.595756
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hsa:7189	TRAF6	IPI00743663	hsa:8767	RIPK2	IPI00021917	6.595756
hsa:7189	TRAF6	IPI00743663	hsa:6885	MAP3K7	IPI00295738	6.595756
hsa:7186	TRAF2	IPI00030278	hsa:85366	MYLK2	IPI00221127	6.595756
hsa:7186	TRAF2	IPI00030278	hsa:9641	IKBKE	IPI00029045	6.595756
hsa:7189	TRAF6	IPI00743663	hsa:6714	SRC	IPI00641230	6.595756
hsa:7189	TRAF6	IPI00743663	hsa:6850	SYK	IPI00018597	6.595756
hsa:7186	TRAF2	IPI00030278	hsa:5585	PKN1	IPI00002803	6.595756
hsa:7189	TRAF6	IPI00743663	hsa:5604	MAP2K1	IPI00219604	6.595756
hsa:7189	TRAF6	IPI00743663	hsa:25	ABL129892	IPI00216969	6.595756
hsa:7189	TRAF6	IPI00743663	hsa:5590	PRKCZ	IPI00013749	6.595756
hsa:7186	TRAF2	IPI00030278	hsa:2081	ERN1	IPI00015974	6.595756
hsa:7189	TRAF6	IPI00743663	hsa:4217	MAP3K5	IPI00412433	6.595756
hsa:3716	JAK1	IPI00443765	hsa:5336	PLCG2	IPI00329185	6.58402
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hsa:5566	PRKACA730418	IPI00396630	hsa:10636	RGS14	IPI00012893	6.528682
hsa:3932	LCK	IPI00394952	hsa:6776	STAT5A	IPI00030783	6.482107
hsa:3932	LCK	IPI00394952	hsa:6772	STAT1	IPI00030781	6.482107
hsa:6714	SRC	IPI00641230	hsa:6778	STAT6	IPI00030782	6.482107
hsa:6714	SRC	IPI00641230	hsa:6777	STAT5B	IPI00103415	6.482107
hsa:6714	SRC	IPI00641230	hsa:6776	STAT5A	IPI00030783	6.482107
hsa:6714	SRC	IPI00641230	hsa:6772	STAT1	IPI00030781	6.482107
hsa:3055	HCK	IPI00646510	hsa:6774	STAT3	IPI00784414	6.482107
hsa:6714	SRC	IPI00641230	hsa:6774	STAT3	IPI00784414	6.482107
hsa:3932	LCK	IPI00394952	hsa:6774	STAT3	IPI00784414	6.482107
hsa:2534	FYN	IPI00219012	hsa:6772	STAT1	IPI00030781	6.482107
hsa:9113	LATS1	IPI00005858	hsa:3984	LIMK1	IPI00291702	6.47421
hsa:29760	BLNK	IPI00002434	hsa:7409	VAV1	IPI00011696	6.466181
hsa:8651	SOCS1	IPI00021491	hsa:7409	VAV1	IPI00011696	6.466181
hsa:3937	LCP2	IPI00297169	hsa:7409	VAV1	IPI00011696	6.466181
hsa:6461	SHB	IPI00604688	hsa:7409	VAV1	IPI00011696	6.466181
hsa:8651	SOCS1	IPI00021491	hsa:7410	VAV2	IPI00446303	6.466181
hsa:2885	GRB2	IPI00021327	hsa:6655	SOS2	IPI00020134	6.441242
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hsa:1398	CRK	IPI00004838	hsa:6654	SOS1	IPI00020131	6.441242
hsa:1399	CRKL	IPI00004839	hsa:6655	SOS2	IPI00020134	6.441242
hsa:5296	PIK3R2	IPI00011736	hsa:6654	SOS1	IPI00020131	6.441242
hsa:8440	NCK2	IPI00306531	hsa:6654	SOS1	IPI00020131	6.441242
hsa:10750	GRAP	IPI00013864	hsa:6654	SOS1	IPI00020131	6.441242
hsa:1399	CRKL	IPI00004839	hsa:6654	SOS1	IPI00020131	6.441242
hsa:4690	NCK1	IPI00028065	hsa:6654	SOS1	IPI00020131	6.441242
hsa:9402	GRAP2	IPI00026928	hsa:6655	SOS2	IPI00020134	6.441242
hsa:2017	CTTN	IPI00029601	hsa:2245	FGD1	IPI00024312	6.43213
hsa:9479	MAPK8IP1	IPI00023133	hsa:7074	TIAM1	IPI00011400	6.43213
hsa:23542	MAPK8IP2	IPI00031777	hsa:7074	TIAM1	IPI00011400	6.43213
hsa:5781	PTPN11	IPI00658023	hsa:4739	NEDD9	IPI00031407	6.375242
hsa:660	BMX	IPI00020899	hsa:5906	RAP1A	IPI00019345	6.305398
hsa:207	AKT1	IPI00012866	hsa:998	CDC42	IPI00007189	6.305398
hsa:207	AKT1	IPI00012866	hsa:9545	RAB3D	IPI00032808	6.305398
hsa:208	AKT2	IPI00012870	hsa:9545	RAB3D	IPI00032808	6.305398
hsa:207	AKT1	IPI00012866	hsa:5879	RAC1	IPI00010271	6.305398
hsa:8878	SQSTM1	IPI00784104	hsa:4914	NTRK1	IPI00025076	6.248191

hsa:8878	SQSTM1	IPI00784104	hsa:8737	RIPK1	IPI00013773	6.248191
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hsa:8878	SQSTM1	IPI00784104	hsa:7046	TGFBR1	IPI00005733	6.248191
hsa:4077	NBR1	IPI00871941	hsa:7273	TTN	IPI00759754	6.248191
hsa:8878	SQSTM1	IPI00784104	hsa:90	ACVR1	IPI00029219	6.248191
hsa:8878	SQSTM1	IPI00784104	hsa:5590	PRKCZ	IPI00013749	6.248191
hsa:8878	SQSTM1	IPI00784104	hsa:658	BMPR1B	IPI00010862	6.248191
hsa:8878	SQSTM1	IPI00784104	hsa:5584	PRKCI	IPI00016639	6.248191
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hsa:1019	CDK4	IPI00007811	hsa:5573	PRKAR1A	IPI00021831	6.174682
hsa:5979	RET	IPI00013983	hsa:5576	PRKAR2A	IPI00219774	6.174682
hsa:5594	MAPK1	IPI00003479	hsa:5605	MAP2K2	IPI00003783	6.174682
hsa:5594	MAPK1	IPI00003479	hsa:5604	MAP2K1	IPI00219604	6.174682
hsa:5595	MAPK3	IPI00018195	hsa:5605	MAP2K2	IPI00003783	6.174682
hsa:5595	MAPK3	IPI00018195	hsa:5604	MAP2K1	IPI00219604	6.174682
hsa:1956	EGFR	IPI00018274	hsa:5573	PRKAR1A	IPI00021831	6.174682
hsa:1020	CDK5	IPI00023530	hsa:5604	MAP2K1	IPI00219604	6.174682
hsa:5566	PRKACA730418	IPI00396630	hsa:5573	PRKAR1A	IPI00021831	6.174682
hsa:1017	CDK2	IPI00031681	hsa:5573	PRKAR1A	IPI00021831	6.174682
hsa:9891	NUAK1	IPI00028566	hsa:5573	PRKAR1A	IPI00021831	6.174682
hsa:57761	TRIB3	IPI00290307	hsa:5604	MAP2K1	IPI00219604	6.174682
hsa:8844	KSR1	IPI00217124	hsa:5605	MAP2K2	IPI00003783	6.174682
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hsa:283455	KSR2	IPI00414043	hsa:5604	MAP2K1	IPI00219604	6.174682
hsa:10221	TRIB1	IPI00290308	hsa:5604	MAP2K1	IPI00219604	6.174682
hsa:4216	MAP3K4	IPI00386260	hsa:5604	MAP2K1	IPI00219604	6.174682
hsa:5613	PRKX	IPI00020904	hsa:5573	PRKAR1A	IPI00021831	6.174682
hsa:5613	PRKX	IPI00020904	hsa:5576	PRKAR2A	IPI00219774	6.174682
hsa:5335	PLCG1	IPI00016736	hsa:116986	CENTG1	IPI00217393	6.17239
hsa:9479	MAPK8IP1	IPI00023133	hsa:64283	RGNEF	IPI00455803	6.08283
hsa:695	BTK	IPI00029132	hsa:5336	PLCG2	IPI00329185	6.069618
hsa:3702	ITK	IPI00004566	hsa:5336	PLCG2	IPI00329185	6.069618
hsa:7006	TEC	IPI00000878	hsa:5335	PLCG1	IPI00016736	6.069618
hsa:695	BTK	IPI00029132	hsa:5335	PLCG1	IPI00016736	6.069618
hsa:3702	ITK	IPI00004566	hsa:5335	PLCG1	IPI00016736	6.069618
hsa:7006	TEC	IPI00000878	hsa:5336	PLCG2	IPI00329185	6.069618
hsa:5794	PTPRH	IPI00760988	hsa:3932	LCK	IPI00394952	6.051408
hsa:5788	PTPRC	IPI00844079	hsa:3932	LCK	IPI00394952	6.051408
hsa:5788	PTPRC	IPI00844079	hsa:4067	LYN	IPI00298625	6.051408
hsa:5788	PTPRC	IPI00844079	hsa:2534	FYN	IPI00219012	6.051408
hsa:5879	RAC1	IPI00010271	hsa:55561	CDC42BPG	IPI00454910	6.039414
hsa:998	CDC42	IPI00007189	hsa:55561	CDC42BPG	IPI00454910	6.039414
hsa:23433	RHOQ	IPI00012511	hsa:55561	CDC42BPG	IPI00454910	6.039414
hsa:2885	GRB2	IPI00021327	hsa:8826	IQGAP1	IPI00009342	5.974607
hsa:660	BMX	IPI00020899	hsa:6776	STAT5A	IPI00030783	5.962548
hsa:660	BMX	IPI00020899	hsa:6772	STAT1	IPI00030781	5.962548
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hsa:6714	SRC	IPI00641230	hsa:9855	FARP2	IPI00744221	5.957561
hsa:5921	RASA1	IPI00026262	hsa:613	BCR	IPI00004497	5.940567
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hsa:1951	CELSR3	unknown	hsa:55075	UACA	IPI00173359	5.912097
hsa:9378	NRXN1	IPI00428511	hsa:23026	MYO16	IPI00444012	5.912097
hsa:10542	HBXIP	IPI00012831	hsa:28964	GIT1	IPI00384861	5.912097
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hsa:2534	FYN	IPI00219012	hsa:115703	SNX26	IPI00549274	5.868048
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hsa:4688	NCF2	IPI00021070	hsa:5879	RAC1	IPI00010271	5.842074
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hsa:3135	HLA-G	IPI00015988	hsa:10288	LILRB2	IPI00376762	5.82831
hsa:3135	HLA-G	IPI00015988	hsa:10859	LILRB1	IPI00643313	5.82831
hsa:5590	PRKCZ	IPI00013749	hsa:9260	PDLIM7	IPI00023122	5.799536
hsa:2885	GRB2	IPI00021327	hsa:2549	GAB1	IPI00031068	5.785317
hsa:2885	GRB2	IPI00021327	hsa:8471	IRS4	IPI00020729	5.785317
hsa:2885	GRB2	IPI00021327	hsa:1759	DNM1	IPI00873844	5.785317
hsa:2885	GRB2	IPI00021327	hsa:8660	IRS2	IPI00464978	5.785317
hsa:2885	GRB2	IPI00021327	hsa:139716	GAB3	IPI00103456	5.785317
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hsa:1399	CRKL	IPI00004839	hsa:9846	GAB2	IPI00186990	5.785317
hsa:1399	CRKL	IPI00004839	hsa:2549	GAB1	IPI00031068	5.785317
hsa:1399	CRKL	IPI00004839	hsa:8471	IRS4	IPI00020729	5.785317
hsa:1399	CRKL	IPI00004839	hsa:1796	DOK1	IPI00015287	5.785317
hsa:5296	PIK3R2	IPI00011736	hsa:8660	IRS2	IPI00464978	5.785317
hsa:4690	NCK1	IPI00028065	hsa:9046	DOK2	IPI00022602	5.785317
hsa:4690	NCK1	IPI00028065	hsa:1796	DOK1	IPI00015287	5.785317
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hsa:1398	CRK	IPI00004838	hsa:3667	IRS1	IPI00019471	5.785317
hsa:5296	PIK3R2	IPI00011736	hsa:3667	IRS1	IPI00019471	5.785317
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hsa:5578	PRKCA	IPI00385449	hsa:9463	PICK1	IPI00160369	5.748303
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hsa:5582	PRKCG	IPI00007128	hsa:56288	PARD3	IPI00154915	5.748303
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hsa:5582	PRKCG	IPI00007128	hsa:9463	PICK1	IPI00160369	5.748303
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hsa:4140	MARK3	IPI00183118	hsa:5588	PRKCQ	IPI00029196	5.74524
hsa:6892	TAPBP	IPI00007327	hsa:3107	HLA-C3106	IPI00004657	5.718425
hsa:6892	TAPBP	IPI00007327	hsa:3105	HLA-A	IPI00472882	5.718425
hsa:4214	MAP3K1	IPI00855985	hsa:5604	MAP2K1	IPI00219604	5.676106
hsa:3716	JAK1	IPI00443765	hsa:3667	IRS1	IPI00019471	5.669805
hsa:3716	JAK1	IPI00443765	hsa:8660	IRS2	IPI00464978	5.669805
hsa:3717	JAK2	IPI00031016	hsa:8660	IRS2	IPI00464978	5.669805
hsa:3717	JAK2	IPI00031016	hsa:3667	IRS1	IPI00019471	5.669805
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hsa:2242	FES	IPI00294344	hsa:1796	DOK1	IPI00015287	5.669805
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hsa:6850	SYK	IPI00018597	hsa:9846	GAB2	IPI00186990	5.669805
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hsa:6774	STAT3	IPI00784414	hsa:7707	ZNF148	IPI00010833	5.627464
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hsa:2885	GRB2	IPI00021327	hsa:11186	RASSF1	IPI00221057	5.627464
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hsa:23371	TENC1	IPI00465295	hsa:8328	GFI1B	IPI00003110	5.627464
hsa:8412	BCAR3	IPI00179053	hsa:10155	TRIM28	IPI00438229	5.627464
hsa:3107	HLA-C3106	IPI00004657	hsa:10288	LILRB2	IPI00376762	5.620856
hsa:3107	HLA-C3106	IPI00004657	hsa:10859	LILRB1	IPI00643313	5.620856
hsa:3105	HLA-A	IPI00472882	hsa:10288	LILRB2	IPI00376762	5.620856
hsa:3105	HLA-A	IPI00472882	hsa:3812	KIR3DL2	IPI00302352	5.620856
hsa:3105	HLA-A	IPI00472882	hsa:10859	LILRB1	IPI00643313	5.620856
hsa:3106	HLA-B	unknown	hsa:10288	LILRB2	IPI00376762	5.620856
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hsa:3134	HLA-F	IPI00646822	hsa:10288	LILRB2	IPI00376762	5.620856
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hsa:1398	CRK	IPI00004838	hsa:7409	VAV1	IPI00011696	5.602914
hsa:6503	SLA	IPI00009499	hsa:7409	VAV1	IPI00011696	5.602914
hsa:2059	EPS8	IPI00290337	hsa:6654	SOS1	IPI00020131	5.546739
hsa:64787	EPS8L2	IPI00414315	hsa:6654	SOS1	IPI00020131	5.546739
hsa:54869	EPS8L1	IPI00301250	hsa:6654	SOS1	IPI00020131	5.546739
hsa:274	BIN1	IPI00186966	hsa:6654	SOS1	IPI00020131	5.546739
hsa:112574	SNAG1	IPI00045219	hsa:6654	SOS1	IPI00020131	5.546739
hsa:51429	SNX9	IPI00001883	hsa:6654	SOS1	IPI00020131	5.546739
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hsa:23607	CD2AP	IPI00412771	hsa:6654	SOS1	IPI00020131	5.546739
hsa:10006	ABI1	IPI00431025	hsa:6654	SOS1	IPI00020131	5.546739
hsa:30011	SH3KBP1	IPI00294962	hsa:6654	SOS1	IPI00020131	5.546739
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hsa:112574	SNAG1	IPI00045219	hsa:6655	SOS2	IPI00020134	5.546739
hsa:51429	SNX9	IPI00001883	hsa:6655	SOS2	IPI00020134	5.546739
hsa:29763	PACSIN3	IPI00329572	hsa:6655	SOS2	IPI00020134	5.546739
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hsa:10006	ABI1	IPI00431025	hsa:6655	SOS2	IPI00020134	5.546739
hsa:5580	PRKCD	IPI00329236	hsa:7074	TIAM1	IPI00011400	5.544667
hsa:8440	NCK2	IPI00306531	hsa:7205	TRIP6	IPI00301561	5.505847
hsa:8440	NCK2	IPI00306531	hsa:7205	TRIP6	IPI00301561	5.505847
hsa:3667	IRS1	IPI00019471	hsa:613	BCR	IPI00004497	5.476863
hsa:2885	GRB2	IPI00021327	hsa:5296	PIK3R2	IPI00011736	5.472017
hsa:1399	CRKL	IPI00004839	hsa:5296	PIK3R2	IPI00011736	5.472017
hsa:3055	HCK	IPI00646510	hsa:5336	PLCG2	IPI00329185	5.467452
hsa:3055	HCK	IPI00646510	hsa:5335	PLCG1	IPI00016736	5.467452
hsa:3932	LCK	IPI00394952	hsa:5336	PLCG2	IPI00329185	5.467452
hsa:3932	LCK	IPI00394952	hsa:5335	PLCG1	IPI00016736	5.467452
hsa:6714	SRC	IPI00641230	hsa:5335	PLCG1	IPI00016736	5.467452
hsa:25	ABL129892	IPI00216969	hsa:5335	PLCG1	IPI00016736	5.467452
hsa:4067	LYN	IPI00298625	hsa:5336	PLCG2	IPI00329185	5.467452
hsa:2534	FYN	IPI00219012	hsa:5336	PLCG2	IPI00329185	5.467452
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hsa:4067	LYN	IPI00298625	hsa:5335	PLCG1	IPI00016736	5.467452
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hsa:5788	PTPRC	IPI00844079	hsa:7535	ZAP70	IPI00329789	5.466945
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hsa:1432	MAPK14	IPI00002857	hsa:5321	PLA2G4A	IPI00026108	5.439601
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hsa:5594	MAPK1	IPI00003479	hsa:23236	PLCB1	IPI00219563	5.439601
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hsa:1956	EGFR	IPI00018274	hsa:5287	PIK3C2B	IPI00292056	5.439601
hsa:5604	MAP2K1	IPI00219604	hsa:131034	CPNE4	IPI00059186	5.439601
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hsa:5058	PAK1	IPI00656138	hsa:57154	SMURF1	IPI00217054	5.439601
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hsa:5590	PRKCZ	IPI00013749	hsa:23286	WWC1	IPI00217340	5.439601
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hsa:1432	MAPK14	IPI00002857	hsa:389692	MAFA	IPI00169353	5.390596
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hsa:1432	MAPK14	IPI00002857	hsa:1385	CREB1	IPI00027713	5.390596
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hsa:5601	MAPK9	IPI00024673	hsa:122953	JDP2	IPI00103731	5.390596
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hsa:4215	MAP3K3	IPI00017801	hsa:8826	IQGAP1	IPI00009342	5.390596
hsa:2932	GSK3B	IPI00028570	hsa:1050	CEBPA	IPI00292025	5.390596
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hsa:5602	MAPK10	IPI00023547	hsa:3725	JUN	IPI00008965	5.390596
hsa:5600	MAPK11	IPI00019473	hsa:3725	JUN	IPI00008965	5.390596
hsa:5599	MAPK8	IPI00024672	hsa:3725	JUN	IPI00008965	5.390596
hsa:25	ABL129892	IPI00216969	hsa:3725	JUN	IPI00008965	5.390596
hsa:54861	SNRK	IPI00470811	hsa:3725	JUN	IPI00008965	5.390596
hsa:8550	MAPKAPK5	IPI00160672	hsa:3725	JUN	IPI00008965	5.390596
hsa:5891	RAGE	IPI00413657	hsa:3725	JUN	IPI00008965	5.390596
hsa:5587	PRKD1	IPI00782950	hsa:3725	JUN	IPI00008965	5.390596
hsa:5601	MAPK9	IPI00024673	hsa:3725	JUN	IPI00008965	5.390596
hsa:5595	MAPK3	IPI00018195	hsa:3725	JUN	IPI00008965	5.390596
hsa:1457	CSNK2A1	IPI00744507	hsa:3725	JUN	IPI00008965	5.390596
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hsa:1859	DYRK1A	IPI00014344	hsa:1385	CREB1	IPI00027713	5.390596
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hsa:6197	RPS6KA3	IPI00020898	hsa:1385	CREB1	IPI00027713	5.390596
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hsa:1399	CRKL	IPI00004839	hsa:7041	TGFB1I1	IPI00761017	5.384231
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hsa:23607	CD2AP	IPI00412771	hsa:126374	WTIP	IPI00045320	5.384231
hsa:8440	NCK2	IPI00306531	hsa:3987	LIMS1	IPI00872358	5.384231
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hsa:7409	VAV1	IPI00011696	hsa:613	BCR	IPI00004497	5.346402
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hsa:26469	PTPN18	IPI00152019	hsa:2064	ERBB2	IPI00300384	5.346045
hsa:207	AKT1	IPI00012866	hsa:79026	AHNAK	IPI00021812	5.337007
hsa:2885	GRB2	IPI00021327	hsa:9649	RALGPS1	IPI00329517	5.319262
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hsa:387	RHOA	IPI00478231	hsa:6242	RTKN	IPI00029834	5.318302
hsa:389	RHOC	IPI00027434	hsa:6242	RTKN	IPI00029834	5.318302
hsa:5590	PRKCZ	IPI00013749	hsa:3551	IKBKB	IPI00024709	5.280978
hsa:5588	PRKCQ	IPI00029196	hsa:1147	CHUK	IPI00005104	5.280978
hsa:5588	PRKCQ	IPI00029196	hsa:3551	IKBKB	IPI00024709	5.280978
hsa:54776	PPP1R12C	IPI00443045	hsa:8476	CDC42BPA	IPI00640468	5.277393
hsa:5792	PTPRF	IPI00107831	hsa:9564	BCAR1	IPI00872386	5.235701
hsa:355	FAS	IPI00744894	hsa:8737	RIPK1	IPI00013773	5.234792
hsa:7132	TNFRSF1A	IPI00018880	hsa:1612	DAPK1	IPI00745936	5.234792
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hsa:8797	TNFRSF10A	IPI00021975	hsa:8737	RIPK1	IPI00013773	5.234792
hsa:958	CD40	IPI00018282	hsa:3718	JAK3	IPI00002773	5.234792
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hsa:5582	PRKCG	IPI00007128	hsa:10611	PDLIM5	IPI00007935	5.213372
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hsa:5371	PML	IPI00022348	hsa:7048	TGFBR2	IPI00020431	5.177529
hsa:5371	PML	IPI00022348	hsa:7046	TGFBR1	IPI00005733	5.177529
hsa:5371	PML	IPI00022348	hsa:6790	AURKA	IPI00298940	5.177529
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hsa:672	BRCA1	IPI00218982	hsa:4215	MAP3K3	IPI00017801	5.177529
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hsa:672	BRCA1	IPI00218982	hsa:207	AKT1	IPI00012866	5.177529
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hsa:4193	MDM2	IPI00025490	hsa:3480	IGF1R	IPI00027232	5.177529
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hsa:4194	MDM4	IPI00005170	hsa:1111	CHEK1	IPI00023664	5.177529
hsa:4194	MDM4	IPI00005170	hsa:11200	CHEK2	IPI00014072	5.177529
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hsa:10425	ARIH2	IPI00007304	hsa:699	BUB1	IPI00783305	5.177529
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hsa:331	BIRC4	IPI00303890	hsa:6885	MAP3K7	IPI00295738	5.177529
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hsa:4194	MDM4	IPI00005170	hsa:1452	CSNK1A1	IPI00183400	5.177529
hsa:4214	MAP3K1	IPI00855985	hsa:5609	MAP2K7	IPI00023636	5.177529
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hsa:22823	MTF2	IPI00291983	hsa:25865	PRKD2	IPI00009334	5.177529
hsa:10155	TRIM28	IPI00438229	hsa:5062	PAK2	IPI00787208	5.177529
hsa:80306	MED28	IPI00097532	hsa:3932	LCK	IPI00394952	5.177529
hsa:672	BRCA1	IPI00218982	hsa:6790	AURKA	IPI00298940	5.177529
hsa:6048	RNF5	IPI00012608	hsa:7046	TGFBR1	IPI00005733	5.177529
hsa:81847	RNF146	IPI00008911	hsa:7046	TGFBR1	IPI00005733	5.177529
hsa:55819	RNF130	IPI00183643	hsa:7046	TGFBR1	IPI00005733	5.177529
hsa:55120	FANCL	IPI00018099	hsa:7046	TGFBR1	IPI00005733	5.177529
hsa:331	BIRC4	IPI00303890	hsa:7046	TGFBR1	IPI00005733	5.177529
hsa:55819	RNF130	IPI00183643	hsa:2261	FGFR3	IPI00027174	5.177529
hsa:64207	C14orf4	IPI00019205	hsa:3055	HCK	IPI00646510	5.177529
hsa:84676	TRIM63	IPI00000309	hsa:7273	TTN	IPI00759754	5.177529
hsa:8554	PIAS1	IPI00220424	hsa:5747	PTK2	IPI00012885	5.177529
hsa:55120	FANCL	IPI00018099	hsa:90	ACVR1	IPI00029219	5.177529
hsa:57820	CCNB1IP1	IPI00009603	hsa:983	CDC2	IPI00073536	5.177529
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hsa:9616	RNF7	IPI00033132	hsa:1457	CSNK2A1	IPI00744507	5.177529
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hsa:331	BIRC4	IPI00303890	hsa:207	AKT1	IPI00012866	5.177529
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hsa:55823	VPS11	IPI00300697	hsa:4140	MARK3	IPI00183118	5.177529
hsa:10475	TRIM38	IPI00007365	hsa:8737	RIPK1	IPI00013773	5.177529
hsa:54476	RNF216	IPI00375632	hsa:8737	RIPK1	IPI00013773	5.177529
hsa:331	BIRC4	IPI00303890	hsa:208	AKT2	IPI00012870	5.177529
hsa:51132	RNF12	IPI00060628	hsa:3984	LIMK1	IPI00291702	5.177529
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hsa:55658	RNF126	IPI00155562	hsa:4215	MAP3K3	IPI00017801	5.177529
hsa:10155	TRIM28	IPI00438229	hsa:9641	IKBKE	IPI00029045	5.177529
hsa:23321	TRIM2	IPI00153011	hsa:23043	TNIK	IPI00145805	5.177529
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hsa:331	BIRC4	IPI00303890	hsa:29110	TBK1	IPI00293613	5.177529
hsa:10425	ARIH2	IPI00007304	hsa:699	BUB1	IPI00783305	5.177529
hsa:55819	RNF130	IPI00183643	hsa:2261	FGFR3	IPI00027174	5.177529
hsa:55823	VPS11	IPI00300697	hsa:4140	MARK3	IPI00183118	5.177529
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hsa:2017	CTTN	IPI00029601	hsa:8976	WASL	IPI00011676	5.127839
hsa:23268	DNMBP	IPI00174025	hsa:8976	WASL	IPI00011676	5.127839
hsa:2885	GRB2	IPI00021327	hsa:8976	WASL	IPI00011676	5.127839
hsa:11252	PACSIN2	IPI00027009	hsa:8976	WASL	IPI00011676	5.127839
hsa:3059	HCLS1	IPI00026156	hsa:7454	WAS	IPI00001545	5.127839
hsa:1739	DLG1	IPI00030351	hsa:7454	WAS	IPI00001545	5.127839
hsa:9051	PSTPIP1	IPI00022606	hsa:7454	WAS	IPI00001545	5.127839
hsa:9322	TRIP10	IPI00168849	hsa:7454	WAS	IPI00001545	5.127839
hsa:2533	FYB	IPI00446986	hsa:7454	WAS	IPI00001545	5.127839
hsa:1399	CRKL	IPI00004839	hsa:7454	WAS	IPI00001545	5.127839
hsa:4690	NCK1	IPI00028065	hsa:7454	WAS	IPI00001545	5.127839
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hsa:29763	PACSIN3	IPI00329572	hsa:8976	WASL	IPI00011676	5.127839
hsa:6457	SH3GL3	IPI00019172	hsa:8976	WASL	IPI00011676	5.127839
hsa:29993	PACSIN1	IPI00011515	hsa:8976	WASL	IPI00011676	5.127839
hsa:54874	FNBP1L	IPI00807364	hsa:8976	WASL	IPI00011676	5.127839
hsa:51517	NCKIPSD	IPI00009319	hsa:8976	WASL	IPI00011676	5.127839
hsa:6453	ITSN1	IPI00304740	hsa:8976	WASL	IPI00011676	5.127839
hsa:4690	NCK1	IPI00028065	hsa:8976	WASL	IPI00011676	5.127839

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hsa:2885	GRB2	IPI00021327	hsa:8631	SKAP1	IPI00289536	5.1158
hsa:3055	HCK	IPI00646510	hsa:1796	DOK1	IPI00015287	5.096015
hsa:3055	HCK	IPI00646510	hsa:1785	DNM2	IPI00033022	5.096015
hsa:3932	LCK	IPI00394952	hsa:9846	GAB2	IPI00186990	5.096015
hsa:3932	LCK	IPI00394952	hsa:79930	DOK3	IPI00156649	5.096015
hsa:3932	LCK	IPI00394952	hsa:9046	DOK2	IPI00022602	5.096015
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hsa:3932	LCK	IPI00394952	hsa:5338	PLD2	IPI00024727	5.096015
hsa:6714	SRC	IPI00641230	hsa:84632	AFAP1L2	IPI00181905	5.096015
hsa:6714	SRC	IPI00641230	hsa:1796	DOK1	IPI00015287	5.096015
hsa:6714	SRC	IPI00641230	hsa:55715	DOK4	IPI00550728	5.096015
hsa:6714	SRC	IPI00641230	hsa:139716	GAB3	IPI00103456	5.096015
hsa:6714	SRC	IPI00641230	hsa:9846	GAB2	IPI00186990	5.096015
hsa:6714	SRC	IPI00641230	hsa:1759	DNM1	IPI00873844	5.096015
hsa:25	ABL129892	IPI00216969	hsa:79930	DOK3	IPI00156649	5.096015
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hsa:4067	LYN	IPI00298625	hsa:1796	DOK1	IPI00015287	5.096015
hsa:4067	LYN	IPI00298625	hsa:79930	DOK3	IPI00156649	5.096015
hsa:4067	LYN	IPI00298625	hsa:139716	GAB3	IPI00103456	5.096015
hsa:4067	LYN	IPI00298625	hsa:9846	GAB2	IPI00186990	5.096015
hsa:2534	FYN	IPI00219012	hsa:1796	DOK1	IPI00015287	5.096015
hsa:2534	FYN	IPI00219012	hsa:79930	DOK3	IPI00156649	5.096015
hsa:2534	FYN	IPI00219012	hsa:55715	DOK4	IPI00550728	5.096015
hsa:2534	FYN	IPI00219012	hsa:139716	GAB3	IPI00103456	5.096015
hsa:1445	CSK	IPI00013212	hsa:1796	DOK1	IPI00015287	5.096015
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hsa:2268	FGR	IPI00016871	hsa:1796	DOK1	IPI00015287	5.096015
hsa:7525	YES1	IPI00013981	hsa:1796	DOK1	IPI00015287	5.096015
hsa:6714	SRC	IPI00641230	hsa:1785	DNM2	IPI00033022	5.096015
hsa:6714	SRC	IPI00641230	hsa:60312	AFAP1	IPI00444138	5.096015
hsa:1445	CSK	IPI00013212	hsa:5338	PLD2	IPI00024727	5.096015
hsa:2534	FYN	IPI00219012	hsa:5338	PLD2	IPI00024727	5.096015
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hsa:5770	PTPN1	IPI00297261	hsa:4914	NTRK1	IPI00025076	5.090737
hsa:5770	PTPN1	IPI00297261	hsa:4058	LTK	IPI00021365	5.090737
hsa:5770	PTPN1	IPI00297261	hsa:207	AKT1	IPI00012866	5.090737
hsa:5728	PTEN	IPI00012587	hsa:6794	STK11	IPI00219072	5.090737
hsa:1033	CDKN3	IPI00003445	hsa:1018	CDK3	IPI00023503	5.090737
hsa:51207	DUSP13	IPI00008928	hsa:7046	TGFBR1	IPI00005733	5.090737
hsa:5791	PTPRE	IPI00334825	hsa:5594	MAPK1	IPI00003479	5.090737
hsa:5770	PTPN1	IPI00297261	hsa:5594	MAPK1	IPI00003479	5.090737
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hsa:84867	PTPN5	IPI00008837	hsa:5594	MAPK1	IPI00003479	5.090737
hsa:5786	PTPRA	IPI00221067	hsa:5580	PRKCD	IPI00329236	5.090737
hsa:5791	PTPRE	IPI00334825	hsa:5595	MAPK3	IPI00018195	5.090737
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hsa:1033	CDKN3	IPI00003445	hsa:983	CDC2	IPI00073536	5.090737
hsa:5801	PTPRR	IPI00033560	hsa:5566	PRKACA730418	IPI00396630	5.090737
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hsa:5770	PTPN1	IPI00297261	hsa:1459	CSNK2A2	IPI00020602	5.090737
hsa:5728	PTEN	IPI00012587	hsa:207	AKT1	IPI00012866	5.090737
hsa:1033	CDKN3	IPI00003445	hsa:1017	CDK2	IPI00031681	5.090737

hsa:5801	PTPRR	IPI00033560	hsa:5598	MAPK7	IPI00376860	5.090737
hsa:3055	HCK	IPI00646510	hsa:50807	DDEF1	IPI00410303	5.086216
hsa:6714	SRC	IPI00641230	hsa:50807	DDEF1	IPI00410303	5.086216
hsa:3118	HLA-DQA2	IPI00005172	hsa:920	CD4	IPI00003983	5.079876
hsa:5581	PRKCE	IPI00024539	hsa:2915	GRM5	IPI00220277	5.040557
hsa:5581	PRKCE	IPI00024539	hsa:2906	GRIN2D	IPI00006217	5.040557
hsa:5580	PRKCD	IPI00329236	hsa:2915	GRM5	IPI00220277	5.040557
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hsa:5605	MAP2K2	IPI00003783	hsa:2902	GRIN1	IPI00013915	5.040557
hsa:2048	EPHB2	IPI00021275	hsa:2902	GRIN1	IPI00013915	5.040557
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hsa:6197	RPS6KA3	IPI00020898	hsa:2902	GRIN1	IPI00013915	5.040557
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hsa:5581	PRKCE	IPI00024539	hsa:2902	GRIN1	IPI00013915	5.040557
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hsa:8573	CASK	IPI00514301	hsa:2903	GRIN2A	IPI00029768	5.040557
hsa:816	CAMK2B	IPI00334271	hsa:2903	GRIN2A	IPI00029768	5.040557
hsa:815	CAMK2A	IPI00215715	hsa:2903	GRIN2A	IPI00029768	5.040557
hsa:2185	PTK2B	IPI00029702	hsa:2903	GRIN2A	IPI00029768	5.040557
hsa:5578	PRKCA	IPI00385449	hsa:2903	GRIN2A	IPI00029768	5.040557
hsa:2534	FYN	IPI00219012	hsa:2903	GRIN2A	IPI00029768	5.040557
hsa:815	CAMK2A	IPI00215715	hsa:2904	GRIN2B	IPI00297933	5.040557
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hsa:5605	MAP2K2	IPI00003783	hsa:2906	GRIN2D	IPI00006217	5.040557
hsa:6197	RPS6KA3	IPI00020898	hsa:2906	GRIN2D	IPI00006217	5.040557

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hsa:5774	PTPN3	IPI00289649	hsa:7535	ZAP70	IPI00329789	5.023523
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hsa:9564	BCAR1	IPI00872386	hsa:10278	EFS	IPI00011652	4.935545
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hsa:9564	BCAR1	IPI00872386	hsa:4739	NEDD9	IPI00031407	4.935545
hsa:9564	BCAR1	IPI00872386	hsa:23607	CD2AP	IPI00412771	4.935545
hsa:9564	BCAR1	IPI00872386	hsa:4867	NPHP1	IPI00028739	4.935545
hsa:8615	USO1	IPI00031583	hsa:5335	PLCG1	IPI00016736	4.935545
hsa:9564	BCAR1	IPI00872386	hsa:1793	DOCK1	IPI00015286	4.935545
hsa:3856	KRT8	IPI00554648	hsa:7082	TJP1	IPI00216219	4.935545
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hsa:3848	KRT1	IPI00220327	hsa:7082	TJP1	IPI00216219	4.935545
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hsa:5580	PRKCD	IPI00329236	hsa:5894	RAF1	IPI00021786	4.932782
hsa:5566	PRKACA730418	IPI00396630	hsa:5894	RAF1	IPI00021786	4.932782
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hsa:5590	PRKCZ	IPI00013749	hsa:5894	RAF1	IPI00021786	4.932782
hsa:6446	SGK	IPI00297590	hsa:673	BRAF	IPI00303797	4.932782
hsa:1760	DMPK	IPI00305254	hsa:5894	RAF1	IPI00021786	4.932782
hsa:6196	RPS6KA2	IPI00300321	hsa:673	BRAF	IPI00303797	4.932782
hsa:920	CD4	IPI00003983	hsa:914	CD2	IPI00027484	4.92894
hsa:3107	HLA-C3106	IPI00004657	hsa:925	CD8A	IPI00438278	4.883891
hsa:3105	HLA-A	IPI00472882	hsa:925	CD8A	IPI00438278	4.883891
hsa:3106	HLA-B	unknown	hsa:925	CD8A	IPI00438278	4.883891
hsa:3133	HLA-E	IPI00830076	hsa:925	CD8A	IPI00438278	4.883891
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hsa:5590	PRKCZ	IPI00013749	hsa:50855	PARD6A	IPI00027217	4.841703
hsa:5913	RAPSN	IPI00828059	hsa:4593	MUSK	IPI00655599	4.794008
hsa:673	BRAF	IPI00303797	hsa:5605	MAP2K2	IPI00003783	4.741274
hsa:5894	RAF1	IPI00021786	hsa:5605	MAP2K2	IPI00003783	4.741274
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hsa:369	ARAF	IPI00872240	hsa:5604	MAP2K1	IPI00219604	4.741274
hsa:5894	RAF1	IPI00021786	hsa:5604	MAP2K1	IPI00219604	4.741274
hsa:673	BRAF	IPI00303797	hsa:5604	MAP2K1	IPI00219604	4.741274
hsa:1794	DOCK2	IPI00022449	hsa:7409	VAV1	IPI00011696	4.739646
hsa:3055	HCK	IPI00646510	hsa:6654	SOS1	IPI00020131	4.71998
hsa:25	ABL129892	IPI00216969	hsa:6655	SOS2	IPI00020134	4.71998
hsa:2534	FYN	IPI00219012	hsa:6654	SOS1	IPI00020131	4.71998
hsa:9863	MAGI2	IPI00376306	hsa:5728	PTEN	IPI00012587	4.711202
hsa:4842	NOS1	IPI00217225	hsa:5798	PTPRN	IPI00004440	4.711202
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hsa:8572	PDLIM4	IPI00032206	hsa:5783	PTPN13	IPI00030246	4.711202
hsa:6645	SNTB2	IPI00009505	hsa:5798	PTPRN	IPI00004440	4.711202
hsa:260425	MAGI3	IPI00514954	hsa:5787	PTPRB	IPI00295577	4.711202
hsa:9368	SLC9A3R1	IPI00003527	hsa:5728	PTEN	IPI00012587	4.711202
hsa:260425	MAGI3	IPI00514954	hsa:5728	PTEN	IPI00012587	4.711202
hsa:6386	SDCBP	IPI00299086	hsa:5795	PTPRJ	IPI00847732	4.711202

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hsa:1843	DUSP1	IPI00003928	hsa:1432	MAPK14	IPI00002857	4.675648
hsa:1844	DUSP2	IPI00016729	hsa:5594	MAPK1	IPI00003479	4.675648
hsa:1847	DUSP5	IPI00003478	hsa:5594	MAPK1	IPI00003479	4.675648
hsa:1846	DUSP4	IPI00011860	hsa:5594	MAPK1	IPI00003479	4.675648
hsa:1843	DUSP1	IPI00003928	hsa:5594	MAPK1	IPI00003479	4.675648
hsa:1846	DUSP4	IPI00011860	hsa:5599	MAPK8	IPI00024672	4.675648
hsa:1843	DUSP1	IPI00003928	hsa:5599	MAPK8	IPI00024672	4.675648
hsa:1843	DUSP1	IPI00003928	hsa:5595	MAPK3	IPI00018195	4.675648
hsa:1847	DUSP5	IPI00003478	hsa:5595	MAPK3	IPI00018195	4.675648
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hsa:1846	DUSP4	IPI00011860	hsa:5601	MAPK9	IPI00024673	4.675648
hsa:2885	GRB2	IPI00021327	hsa:2889	RAPGEF1	IPI00394743	4.661348
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hsa:1399	CRKL	IPI00004839	hsa:2889	RAPGEF1	IPI00394743	4.661348
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hsa:9564	BCAR1	IPI00872386	hsa:2889	RAPGEF1	IPI00394743	4.661348
hsa:5771	PTPN2	IPI00219695	hsa:3643	INSR	IPI00220325	4.651753
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hsa:6850	SYK	IPI00018597	hsa:6464	SHC1	IPI00645103	4.585202
hsa:7535	ZAP70	IPI00329789	hsa:6464	SHC1	IPI00645103	4.585202
hsa:1845	DUSP3	IPI00018671	hsa:5605	MAP2K2	IPI00003783	4.580121
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hsa:56940	DUSP22	IPI00024617	hsa:1432	MAPK14	IPI00002857	4.580121
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hsa:56940	DUSP22	IPI00024617	hsa:6416	MAP2K4	IPI00024674	4.580121
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hsa:56940	DUSP22	IPI00024617	hsa:5609	MAP2K7	IPI00023636	4.580121
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hsa:5159	PDGFRB	IPI00015902	hsa:8831	SYNGAP1	IPI00177884	4.578506
hsa:815	CAMK2A	IPI00215715	hsa:8831	SYNGAP1	IPI00177884	4.578506
hsa:3791	KDR	IPI00021396	hsa:8831	SYNGAP1	IPI00177884	4.578506
hsa:8408	ULK1	IPI00289357	hsa:8831	SYNGAP1	IPI00177884	4.578506
hsa:9706	ULK2	IPI00479399	hsa:8831	SYNGAP1	IPI00177884	4.578506
hsa:695	BTK	IPI00029132	hsa:6776	STAT5A	IPI00030783	4.571218
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hsa:6667	SP1	IPI00465152	hsa:1958	EGR1	IPI00030227	4.506367
hsa:10320	IKZF1	IPI00013232	hsa:64375	IKZF4	IPI00064241	4.506367
hsa:25888	ZNF473	IPI00297388	hsa:90933	TRIM41	IPI00414021	4.506367
hsa:59348	ZNF350	IPI00478374	hsa:26994	RNF11	IPI00003894	4.506367
hsa:10524	HTATIP	IPI00290020	hsa:648	BMI1	IPI00017299	4.506367
hsa:4150	MAZ	IPI00869267	hsa:2186	BPTF	IPI00785110	4.506367

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hsa:26036	ZNF451	IPI00000725	hsa:9810	RNF40	IPI00162563	4.506367
hsa:10127	ZNF263	IPI00298951	hsa:90933	TRIM41	IPI00414021	4.506367
hsa:23598	PATZ1	IPI00003801	hsa:6047	RNF4	IPI00297694	4.506367
hsa:49854	ZNF295	IPI00008137	hsa:7541	ZFP161	IPI00307325	4.506367
hsa:8328	GFI1B	IPI00003110	hsa:55072	RNF31	IPI00094740	4.506367
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hsa:58525	WIZ	IPI00295502	hsa:79813	EHMT1	IPI00015526	4.506367
hsa:653121	ZBTB8	unknown	hsa:90933	TRIM41	IPI00414021	4.506367
hsa:8517	IKBKG	IPI00002411	hsa:10155	TRIM28	IPI00438229	4.506367
hsa:57473	ZNF512B	IPI00074893	hsa:9618	TRAF4	IPI00162088	4.506367
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hsa:7556	ZNF10	IPI00009267	hsa:8805	TRIM24	IPI00005184	4.506367
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hsa:7528	YY1	IPI00014513	hsa:672	BRCA1	IPI00218982	4.506367
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hsa:59348	ZNF350	IPI00478374	hsa:672	BRCA1	IPI00218982	4.506367
hsa:6667	SP1	IPI00465152	hsa:672	BRCA1	IPI00218982	4.506367
hsa:10524	HTATIP	IPI00290020	hsa:4193	MDM2	IPI00025490	4.506367
hsa:54840	APTX	IPI00420029	hsa:4591	TRIM37	IPI00016619	4.506367
hsa:147687	ZNF417	IPI00290557	hsa:4591	TRIM37	IPI00016619	4.506367
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hsa:7629	ZNF76	IPI00003784	hsa:8554	PIAS1	IPI00220424	4.506367
hsa:5178	PEG3	IPI00478786	hsa:7186	TRAF2	IPI00030278	4.506367
hsa:7597	ZBTB25	IPI00217777	hsa:7186	TRAF2	IPI00030278	4.506367
hsa:59269	HIVEP3	IPI00328089	hsa:7186	TRAF2	IPI00030278	4.506367
hsa:23099	ZBTB43	IPI00022264	hsa:7186	TRAF2	IPI00030278	4.506367
hsa:25988	MIZF	IPI00023489	hsa:7186	TRAF2	IPI00030278	4.506367
hsa:9726	ZNF646	IPI00004419	hsa:7186	TRAF2	IPI00030278	4.506367
hsa:10782	ZNF274	IPI00062467	hsa:4804	NGFR	IPI00027436	4.506367
hsa:10906	TRAFD1	IPI00009146	hsa:7189	TRAF6	IPI00743663	4.506367
hsa:171392	ZNF675	IPI00152427	hsa:7189	TRAF6	IPI00743663	4.506367
hsa:10524	HTATIP	IPI00290020	hsa:580	BARD1	IPI00017746	4.506367
hsa:11244	ZHX1	IPI00293086	hsa:580	BARD1	IPI00017746	4.506367
hsa:11143	MYST2	IPI00180764	hsa:580	BARD1	IPI00017746	4.506367
hsa:10524	HTATIP	IPI00290020	hsa:10425	ARIH2	IPI00007304	4.506367
hsa:58525	WIZ	IPI00295502	hsa:10919	EHMT2	IPI00096972	4.506367
hsa:1316	KLF6	IPI00293523	hsa:10919	EHMT2	IPI00096972	4.506367
hsa:1877	E4F1	IPI00556439	hsa:10919	EHMT2	IPI00096972	4.506367
hsa:11278	KLF12	IPI00027024	hsa:10919	EHMT2	IPI00096972	4.506367
hsa:5178	PEG3	IPI00478786	hsa:6477	SIAH1	IPI00396517	4.506367
hsa:5178	PEG3	IPI00478786	hsa:6478	SIAH2	IPI00305283	4.506367
hsa:115509	ZNF689	IPI00073580	hsa:10155	TRIM28	IPI00438229	4.506367
hsa:7625	ZNF74	IPI00807386	hsa:10155	TRIM28	IPI00438229	4.506367
hsa:6940	ZNF354A	IPI00031589	hsa:10155	TRIM28	IPI00438229	4.506367
hsa:84911	ZNF382	IPI00797562	hsa:10155	TRIM28	IPI00438229	4.506367
hsa:7556	ZNF10	IPI00009267	hsa:10155	TRIM28	IPI00438229	4.506367
hsa:8517	IKBKG	IPI00002411	hsa:329	BIRC2	IPI00013418	4.506367
hsa:126070	ZNF440	IPI00829765	hsa:64219	PJA1	IPI00294448	4.506367

hsa:51545	ZNF581	IPI00009777	hsa:373	TRIM23	IPI00003328	4.506367
hsa:8328	GFI1B	IPI00003110	hsa:25898	RCHY1	IPI00289787	4.506367
hsa:8328	GFI1B	IPI00003110	hsa:11043	MID2	IPI00067350	4.506367
hsa:22807	IKZF2	IPI00007757	hsa:64375	IKZF4	IPI00064241	4.506367
hsa:7227	TRPS1	IPI00296078	hsa:6047	RNF4	IPI00297694	4.506367
hsa:84107	ZIC4	IPI00396030	hsa:90850	ZNF598	IPI00328737	4.506367
hsa:1316	KLF6	IPI00293523	hsa:10919	BAT8	IPI00096972	4.506367
hsa:1877	E4F1	IPI00556439	hsa:10919	BAT8	IPI00096972	4.506367
hsa:10127	ZNF263	IPI00298951	hsa:90933	TRIM41	IPI00414021	4.506367
hsa:25888	ZNF473	IPI00297388	hsa:90933	TRIM41	IPI00414021	4.506367
hsa:11278	KLF12	IPI00027024	hsa:10919	BAT8	IPI00096972	4.506367
hsa:147687	ZNF417	IPI00290557	hsa:4591	TRIM37	IPI00016619	4.506367
hsa:25988	MIZF	IPI00023489	hsa:7186	TRAF2	IPI00030278	4.506367
hsa:26036	ZNF451	IPI00000725	hsa:9810	RNF40	IPI00162563	4.506367
hsa:51545	ZNF581	IPI00009777	hsa:373	TRIM23	IPI00003328	4.506367
hsa:653121	ZBTB8	unknown	hsa:90933	TRIM41	IPI00414021	4.506367
hsa:7597	ZNF46	IPI00217777	hsa:7186	TRAF2	IPI00030278	4.506367
hsa:7704	ZBTB16	IPI00305613	hsa:5987	RFP	IPI00426252	4.506367
hsa:84775	ZNF607	IPI00100922	hsa:4188	MDFI	IPI00023726	4.506367
hsa:90594	ZNF439	IPI00168560	hsa:4188	MDFI	IPI00023726	4.506367
hsa:9726	ZNF646	IPI00004419	hsa:7186	TRAF2	IPI00030278	4.506367
hsa:9841	ZBTB24	IPI00011180	hsa:4188	MDFI	IPI00023726	4.506367
hsa:10524	HTATIP	IPI00290020	hsa:10425	ARIH2	IPI00007304	4.506367
hsa:10524	HTATIP	IPI00290020	hsa:648	BMI1	IPI00017299	4.506367
hsa:3932	LCK	IPI00394952	hsa:5829	PXN	IPI00335634	4.496405
hsa:6714	SRC	IPI00641230	hsa:5829	PXN	IPI00335634	4.496405
hsa:25	ABL129892	IPI00216969	hsa:5829	PXN	IPI00335634	4.496405
hsa:2534	FYN	IPI00219012	hsa:5829	PXN	IPI00335634	4.496405
hsa:1445	CSK	IPI00013212	hsa:5829	PXN	IPI00335634	4.496405
hsa:4145	MATK	IPI00000868	hsa:5829	PXN	IPI00335634	4.496405
hsa:5582	PRKCG	IPI00007128	hsa:50855	PARD6A	IPI00027217	4.494998
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hsa:23139	MAST2	IPI00514071	hsa:27148	STK36	IPI00235407	4.485446
hsa:7006	TEC	IPI00000878	hsa:7409	VAV1	IPI00011696	4.44752
hsa:695	BTK	IPI00029132	hsa:7409	VAV1	IPI00011696	4.44752
hsa:4301	MLLT4	IPI00398718	hsa:6016	RIT1	IPI00144289	4.441991
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hsa:4301	MLLT4	IPI00398718	hsa:22800	RRAS2	IPI00012512	4.441991
hsa:4301	MLLT4	IPI00398718	hsa:5911	RAP2A	IPI00019346	4.441991
hsa:4301	MLLT4	IPI00398718	hsa:5906	RAP1A	IPI00019345	4.441991
hsa:4301	MLLT4	IPI00398718	hsa:6237	RRAS	IPI00020418	4.441991
hsa:4301	MLLT4	IPI00398718	hsa:6014	RIT2	IPI00163763	4.441991
hsa:4301	MLLT4	IPI00398718	hsa:3265	HRAS	IPI00000006	4.441991
hsa:11200	CHEK2	IPI00014072	hsa:545	ATR	IPI00412298	4.410488
hsa:3791	KDR	IPI00021396	hsa:545	ATR	IPI00412298	4.410488
hsa:1111	CHEK1	IPI00023664	hsa:545	ATR	IPI00412298	4.410488
hsa:2321	FLT1	IPI00018335	hsa:545	ATR	IPI00412298	4.410488
hsa:1432	MAPK14	IPI00002857	hsa:10891	PPARGC1A	IPI00033138	4.410487
hsa:1432	MAPK14	IPI00002857	hsa:3172	HNF4A	IPI00013196	4.410487
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hsa:1019	CDK4	IPI00007811	hsa:1028	CDKN1C	IPI00029086	4.410487
hsa:1019	CDK4	IPI00007811	hsa:1027	CDKN1B	IPI00006991	4.410487
hsa:1019	CDK4	IPI00007811	hsa:1026	CDKN1A	IPI00009384	4.410487
hsa:5581	PRKCE	IPI00024539	hsa:58	ACTA1	IPI00021428	4.410487
hsa:4638	MYLK	IPI00336081	hsa:58	ACTA1	IPI00021428	4.410487
hsa:51086	TNNI3K	IPI00655547	hsa:58	ACTA1	IPI00021428	4.410487
hsa:2261	FGFR3	IPI00027174	hsa:3191	HNRNPL	IPI00465225	4.410487
hsa:3932	LCK	IPI00394952	hsa:2100	ESR2	IPI00023212	4.410487
hsa:3932	LCK	IPI00394952	hsa:2099	ESR1	IPI00294982	4.410487
hsa:5594	MAPK1	IPI00003479	hsa:367	AR	IPI00020070	4.410487

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hsa:5594	MAPK1	IPI00003479	hsa:2516	NR5A1	IPI00012446	4.410487
hsa:5594	MAPK1	IPI00003479	hsa:6256	RXRA	IPI00418394	4.410487
hsa:5594	MAPK1	IPI00003479	hsa:5465	PPARA	IPI00020097	4.410487
hsa:5594	MAPK1	IPI00003479	hsa:3164	NR4A1	IPI00743108	4.410487
hsa:5594	MAPK1	IPI00003479	hsa:2099	ESR1	IPI00294982	4.410487
hsa:5580	PRKCD	IPI00329236	hsa:2101	ESRRA	IPI00005717	4.410487
hsa:5580	PRKCD	IPI00329236	hsa:5465	PPARA	IPI00020097	4.410487
hsa:5580	PRKCD	IPI00329236	hsa:58	ACTA1	IPI00021428	4.410487
hsa:5580	PRKCD	IPI00329236	hsa:59	ACTA2	IPI00008603	4.410487
hsa:6714	SRC	IPI00641230	hsa:5241	PGR	IPI00297419	4.410487
hsa:6714	SRC	IPI00641230	hsa:2100	ESR2	IPI00023212	4.410487
hsa:6714	SRC	IPI00641230	hsa:5467	PPARD	IPI00009330	4.410487
hsa:6714	SRC	IPI00641230	hsa:2099	ESR1	IPI00294982	4.410487
hsa:5599	MAPK8	IPI00024672	hsa:5468	PPARG	IPI00794250	4.410487
hsa:5595	MAPK3	IPI00018195	hsa:2099	ESR1	IPI00294982	4.410487
hsa:5595	MAPK3	IPI00018195	hsa:5465	PPARA	IPI00020097	4.410487
hsa:9252	RPS6KA5	IPI00335101	hsa:3164	NR4A1	IPI00743108	4.410487
hsa:1956	EGFR	IPI00018274	hsa:2099	ESR1	IPI00294982	4.410487
hsa:1020	CDK5	IPI00023530	hsa:1027	CDKN1B	IPI00006991	4.410487
hsa:1020	CDK5	IPI00023530	hsa:8867	SYNJ1	IPI00012441	4.410487
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hsa:90	ACVR1	IPI00029219	hsa:7421	VDR	IPI00005716	4.410487
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hsa:5578	PRKCA	IPI00385449	hsa:5465	PPARA	IPI00020097	4.410487
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hsa:5058	PAK1	IPI00656138	hsa:2099	ESR1	IPI00294982	4.410487
hsa:4067	LYN	IPI00298625	hsa:1027	CDKN1B	IPI00006991	4.410487
hsa:1452	CSNK1A1	IPI00183400	hsa:3183	HNRNPC	IPI00477313	4.410487
hsa:5566	PRKACA730418	IPI00396630	hsa:2099	ESR1	IPI00294982	4.410487
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hsa:5566	PRKACA730418	IPI00396630	hsa:3184	HNRPD	IPI00028888	4.410487
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hsa:2932	GSK3B	IPI00028570	hsa:3184	HNRPD	IPI00028888	4.410487
hsa:657	BMPR1A	IPI00005731	hsa:10262	SF3B4	IPI00017339	4.410487
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hsa:2268	FGR	IPI00016871	hsa:7421	VDR	IPI00005716	4.410487
hsa:1457	CSNK2A1	IPI00744507	hsa:3181	HNRNPA2B1	IPI00396378	4.410487
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hsa:1457	CSNK2A1	IPI00744507	hsa:5241	PGR	IPI00297419	4.410487
hsa:1457	CSNK2A1	IPI00744507	hsa:140890	SFRS12	IPI00103497	4.410487
hsa:1457	CSNK2A1	IPI00744507	hsa:7421	VDR	IPI00005716	4.410487
hsa:1459	CSNK2A2	IPI00020602	hsa:4691	NCL	IPI00604620	4.410487
hsa:1459	CSNK2A2	IPI00020602	hsa:3183	HNRNPC	IPI00477313	4.410487
hsa:695	BTK	IPI00029132	hsa:2130	EWSR1	IPI00872855	4.410487
hsa:659	BMPR2	IPI00783156	hsa:93973	ACTR8	IPI00025646	4.410487
hsa:659	BMPR2	IPI00783156	hsa:10236	HNRNPR	IPI00012074	4.410487
hsa:3643	INSR	IPI00220325	hsa:10492	SYNCRIP	IPI00018140	4.410487
hsa:10188	TNK2	IPI00167089	hsa:6430	SFRS5	IPI00012341	4.410487
hsa:1025	CDK9	IPI00301923	hsa:27336	HTATSF1	IPI00013788	4.410487
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hsa:1147	CHUK	IPI00005104	hsa:7182	NR2C2	IPI00749258	4.410487
hsa:3551	IKBKB	IPI00024709	hsa:7182	NR2C2	IPI00749258	4.410487
hsa:4678	NASP	IPI00179953	hsa:9706	ULK2	IPI00479399	4.410487
hsa:6198	RPS6KB1	IPI00216132	hsa:84271	POLDIP3	IPI00440688	4.410487
hsa:6195	RPS6KA1	IPI00017305	hsa:4929	NR4A2	IPI00018033	4.410487
hsa:6195	RPS6KA1	IPI00017305	hsa:8013	NR4A3	IPI00328269	4.410487

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hsa:2289	FKBP5	IPI00218775	hsa:9641	IKBKE	IPI00029045	4.410487
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hsa:5562	PRKAA1	IPI00872804	hsa:5571	PRKAG1	IPI00413318	4.410487
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hsa:5563	PRKAA2	IPI00307755	hsa:5571	PRKAG1	IPI00413318	4.410487
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hsa:6732	SRPK1	IPI00290439	hsa:6428	SFRS3	IPI00010204	4.410487
hsa:6732	SRPK1	IPI00290439	hsa:6430	SFRS5	IPI00012341	4.410487
hsa:6732	SRPK1	IPI00290439	hsa:11338	U2AF2	IPI00031556	4.410487
hsa:23097	CDC2L6	IPI00250316	hsa:6432	SFRS7	IPI00003377	4.410487
hsa:3551	IKBKB	IPI00024709	hsa:71	ACTG1	unknown	4.410487
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hsa:6767	ST13	IPI00032826	hsa:4215	MAP3K3	IPI00017801	4.410487
hsa:3932	LCK	IPI00394952	hsa:2908	NR3C1	IPI00022282	4.410487
hsa:6195	RPS6KA1	IPI00017305	hsa:1975	EIF4B	IPI00012079	4.410487
hsa:8737	RIPK1	IPI00013773	hsa:3309	HSPA5	IPI00003362	4.410487
hsa:8737	RIPK1	IPI00013773	hsa:71	ACTG1	unknown	4.410487
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hsa:11035	RIPK3	IPI00294938	hsa:3178	HNRNPA1	IPI00215965	4.410487
hsa:11035	RIPK3	IPI00294938	hsa:4841	NONO	IPI00304596	4.410487
hsa:11035	RIPK3	IPI00294938	hsa:3187	HNRPH1	IPI00013881	4.410487
hsa:11035	RIPK3	IPI00294938	hsa:3309	HSPA5	IPI00003362	4.410487
hsa:3932	LCK	IPI00394952	hsa:10146	G3BP1	IPI00012442	4.410487
hsa:29110	TBK1	IPI00293613	hsa:4670	HNRPM	IPI00171903	4.410487
hsa:29110	TBK1	IPI00293613	hsa:6421	SFPQ	IPI00010740	4.410487
hsa:3702	ITK	IPI00004566	hsa:10146	G3BP1	IPI00012442	4.410487
hsa:4215	MAP3K3	IPI00017801	hsa:3313	HSPA9	IPI00007765	4.410487
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hsa:4215	MAP3K3	IPI00017801	hsa:3309	HSPA5	IPI00003362	4.410487
hsa:9020	MAP3K14	IPI00016099	hsa:4670	HNRPM	IPI00171903	4.410487
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hsa:2289	FKBP5	IPI00218775	hsa:4214	MAP3K1	IPI00855985	4.410487
hsa:9641	IKBKE	IPI00029045	hsa:71	ACTG1	unknown	4.410487
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hsa:6446	SGK	IPI00297590	hsa:3191	HNRNPL	IPI00465225	4.410487
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hsa:2932	GSK3B	IPI00028570	hsa:10642	IGF2BP1	IPI00008557	4.410487
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hsa:8428	STK24	IPI00002212	hsa:9782	MATR3	IPI00017297	4.410487
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hsa:8428	STK24	IPI00002212	hsa:9908	G3BP2	IPI00009057	4.410487
hsa:6732	SRPK1	IPI00290439	hsa:10921	RNPS1	IPI00033561	4.410487
hsa:23043	TNIK	IPI00145805	hsa:51639	SF3B14	IPI00032827	4.410487
hsa:23043	TNIK	IPI00145805	hsa:6629	SNRPB2	IPI00029267	4.410487
hsa:23043	TNIK	IPI00145805	hsa:220988	HNRPA3	IPI00419373	4.410487
hsa:1017	CDK2	IPI00031681	hsa:26986	PABPC1	IPI00008524	4.410487

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hsa:9641	IKBKE	IPI00029045	hsa:7458	EIF4H653994	IPI00014263	4.410487
hsa:9641	IKBKE	IPI00029045	hsa:8761	PABPC4	IPI00012726	4.410487
hsa:9641	IKBKE	IPI00029045	hsa:6741	SSB	IPI00009032	4.410487
hsa:9641	IKBKE	IPI00029045	hsa:10492	SYNCRIP	IPI00018140	4.410487
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hsa:9641	IKBKE	IPI00029045	hsa:9939	RBM8A	IPI00001757	4.410487
hsa:9641	IKBKE	IPI00029045	hsa:51639	SF3B14	IPI00032827	4.410487
hsa:9641	IKBKE	IPI00029045	hsa:6629	SNRPB2	IPI00029267	4.410487
hsa:80155	NARG1	IPI00386189	hsa:23043	TNIK	IPI00145805	4.410487
hsa:4678	NASP	IPI00179953	hsa:6446	SGK	IPI00297590	4.410487
hsa:984	CDC2L1	IPI00215999	hsa:10921	RNPS1	IPI00033561	4.410487
hsa:1457	CSNK2A1	IPI00744507	hsa:10921	RNPS1	IPI00033561	4.410487
hsa:1459	CSNK2A2	IPI00020602	hsa:10921	RNPS1	IPI00033561	4.410487
hsa:5062	PAK2	IPI00787208	hsa:11052	CPSF6	IPI00012998	4.410487
hsa:6733	SRPK2	IPI00333420	hsa:10921	RNPS1	IPI00033561	4.410487
hsa:3611	ILK	IPI00013219	hsa:2130	EWSR1	IPI00872855	4.410487
hsa:80155	NARG1	IPI00386189	hsa:9641	IKBKE	IPI00029045	4.410487
hsa:6446	SGK	IPI00297590	hsa:10525	HYOU1	IPI00000877	4.410487
hsa:6446	SGK	IPI00297590	hsa:4670	HNRPM	IPI00171903	4.410487
hsa:3611	ILK	IPI00013219	hsa:10642	IGF2BP1	IPI00008557	4.410487
hsa:8428	STK24	IPI00002212	hsa:10492	SYNCRIP	IPI00018140	4.410487
hsa:5218	PFTK1	IPI00165249	hsa:1026	CDKN1A	IPI00009384	4.410487
hsa:7525	YES1	IPI00013981	hsa:1027	CDKN1B	IPI00006991	4.410487
hsa:2289	FKBP5	IPI00218775	hsa:6885	MAP3K7	IPI00295738	4.410487
hsa:23770	FKBP8	IPI00328161	hsa:1432	MAPK14	IPI00002857	4.410487
hsa:1022	CDK7	IPI00000685	hsa:5914	RARA	IPI00020071	4.410487
hsa:5578	PRKCA	IPI00385449	hsa:5914	RARA	IPI00020071	4.410487
hsa:1022	CDK7	IPI00000685	hsa:7067	THRA	IPI00022991	4.410487
hsa:55622	TTC27	IPI00183938	hsa:7046	TGFBR1	IPI00005733	4.410487
hsa:79657	RPAP3	IPI00002408	hsa:7046	TGFBR1	IPI00005733	4.410487
hsa:51433	ANAPC5	IPI00008247	hsa:7046	TGFBR1	IPI00005733	4.410487
hsa:7265	TTC1	IPI00016912	hsa:7046	TGFBR1	IPI00005733	4.410487
hsa:10273	STUB1	IPI00025156	hsa:7046	TGFBR1	IPI00005733	4.410487
hsa:1452	CSNK1A1	IPI00183400	hsa:60	ACTB	IPI00021439	4.410487
hsa:5580	PRKCD	IPI00329236	hsa:60	ACTB	IPI00021439	4.410487
hsa:4067	LYN	IPI00298625	hsa:60	ACTB	IPI00021439	4.410487
hsa:3055	HCK	IPI00646510	hsa:60	ACTB	IPI00021439	4.410487
hsa:51086	TNNI3K	IPI00655547	hsa:70	ACTC1	IPI00023006	4.410487
hsa:4638	MYLK	IPI00336081	hsa:70	ACTC1	IPI00023006	4.410487
hsa:5581	PRKCE	IPI00024539	hsa:70	ACTC1	IPI00023006	4.410487
hsa:9049	AIP	IPI00010460	hsa:51086	TNNI3K	IPI00655547	4.410487
hsa:1021	CDK6	IPI00023529	hsa:1026	CDKN1A	IPI00009384	4.410487
hsa:983	CDC2	IPI00073536	hsa:1026	CDKN1A	IPI00009384	4.410487
hsa:1457	CSNK2A1	IPI00744507	hsa:1026	CDKN1A	IPI00009384	4.410487
hsa:1613	DAPK3	IPI00015213	hsa:1026	CDKN1A	IPI00009384	4.410487
hsa:8317	CDC7	IPI00448121	hsa:1026	CDKN1A	IPI00009384	4.410487
hsa:5599	MAPK8	IPI00024672	hsa:1026	CDKN1A	IPI00009384	4.410487
hsa:5292	PIM1	IPI00005014	hsa:1026	CDKN1A	IPI00009384	4.410487
hsa:207	AKT1	IPI00012866	hsa:1026	CDKN1A	IPI00009384	4.410487
hsa:1018	CDK3	IPI00023503	hsa:1026	CDKN1A	IPI00009384	4.410487
hsa:1017	CDK2	IPI00031681	hsa:1026	CDKN1A	IPI00009384	4.410487
hsa:225689	MAPK15	IPI00747020	hsa:2908	NR3C1	IPI00022282	4.410487
hsa:5566	PRKACA730418	IPI00396630	hsa:2908	NR3C1	IPI00022282	4.410487
hsa:5599	MAPK8	IPI00024672	hsa:2908	NR3C1	IPI00022282	4.410487
hsa:5594	MAPK1	IPI00003479	hsa:2908	NR3C1	IPI00022282	4.410487
hsa:5894	RAF1	IPI00021786	hsa:2908	NR3C1	IPI00022282	4.410487
hsa:5611	DNAJC3	IPI00006713	hsa:5610	EIF2AK2	IPI00019463	4.410487
hsa:2580	GAK	IPI00298949	hsa:367	AR	IPI00020070	4.410487

hsa:1956	EGFR	IPI00018274	hsa:367	AR	IPI00020070	4.410487
hsa:1022	CDK7	IPI00000685	hsa:367	AR	IPI00020070	4.410487
hsa:983	CDC2	IPI00073536	hsa:367	AR	IPI00020070	4.410487
hsa:6041	RNASEL	IPI00015864	hsa:367	AR	IPI00020070	4.410487
hsa:1021	CDK6	IPI00023529	hsa:367	AR	IPI00020070	4.410487
hsa:1025	CDK9	IPI00301923	hsa:367	AR	IPI00020070	4.410487
hsa:56924	PAK6	IPI00024584	hsa:367	AR	IPI00020070	4.410487
hsa:10114	HIPK3	IPI00099522	hsa:367	AR	IPI00020070	4.410487
hsa:207	AKT1	IPI00012866	hsa:367	AR	IPI00020070	4.410487
hsa:5894	RAF1	IPI00021786	hsa:367	AR	IPI00020070	4.410487
hsa:25	ABL129892	IPI00216969	hsa:58	ACTA1	IPI00021428	4.410487
hsa:7273	TTN	IPI00759754	hsa:58	ACTA1	IPI00021428	4.410487
hsa:5578	PRKCA	IPI00385449	hsa:58	ACTA1	IPI00021428	4.410487
hsa:5058	PAK1	IPI00656138	hsa:58	ACTA1	IPI00021428	4.410487
hsa:1956	EGFR	IPI00018274	hsa:58	ACTA1	IPI00021428	4.410487
hsa:55622	TTC27	IPI00183938	hsa:90	ACVR1	IPI00029219	4.410487
hsa:55761	TTC17	IPI00302966	hsa:90	ACVR1	IPI00029219	4.410487
hsa:2288	FKBP4	IPI00219005	hsa:90	ACVR1	IPI00029219	4.410487
hsa:27330	RPS6KA6	IPI00007123	hsa:3164	NR4A1	IPI00743108	4.410487
hsa:6197	RPS6KA3	IPI00020898	hsa:3164	NR4A1	IPI00743108	4.410487
hsa:6195	RPS6KA1	IPI00017305	hsa:3164	NR4A1	IPI00743108	4.410487
hsa:207	AKT1	IPI00012866	hsa:3164	NR4A1	IPI00743108	4.410487
hsa:9891	NUAK1	IPI00028566	hsa:3309	HSPA5	IPI00003362	4.410487
hsa:2081	ERN1	IPI00015974	hsa:3309	HSPA5	IPI00003362	4.410487
hsa:9451	EIF2AK3	IPI00303053	hsa:3309	HSPA5	IPI00003362	4.410487
hsa:6674	SPAG1	IPI00292326	hsa:5578	PRKCA	IPI00385449	4.410487
hsa:50488	MINK1	IPI00166680	hsa:59	ACTA2	IPI00008603	4.410487
hsa:8473	OGT	IPI00005780	hsa:2932	GSK3B	IPI00028570	4.410487
hsa:55622	TTC27	IPI00183938	hsa:658	BMPR1B	IPI00010862	4.410487
hsa:55761	TTC17	IPI00302966	hsa:658	BMPR1B	IPI00010862	4.410487
hsa:10273	STUB1	IPI00025156	hsa:658	BMPR1B	IPI00010862	4.410487
hsa:2064	ERBB2	IPI00300384	hsa:2099	ESR1	IPI00294982	4.410487
hsa:3480	IGF1R	IPI00027232	hsa:2099	ESR1	IPI00294982	4.410487
hsa:1147	CHUK	IPI00005104	hsa:2099	ESR1	IPI00294982	4.410487
hsa:1022	CDK7	IPI00000685	hsa:2099	ESR1	IPI00294982	4.410487
hsa:56924	PAK6	IPI00024584	hsa:2099	ESR1	IPI00294982	4.410487
hsa:2872	MKNK2	IPI00396114	hsa:2099	ESR1	IPI00294982	4.410487
hsa:6195	RPS6KA1	IPI00017305	hsa:2099	ESR1	IPI00294982	4.410487
hsa:6197	RPS6KA3	IPI00020898	hsa:2099	ESR1	IPI00294982	4.410487
hsa:208	AKT2	IPI00012870	hsa:2099	ESR1	IPI00294982	4.410487
hsa:207	AKT1	IPI00012866	hsa:2099	ESR1	IPI00294982	4.410487
hsa:51555	PEX5L	IPI00009809	hsa:5894	RAF1	IPI00021786	4.410487
hsa:207	AKT1	IPI00012866	hsa:1027	CDKN1B	IPI00006991	4.410487
hsa:1018	CDK3	IPI00023503	hsa:1027	CDKN1B	IPI00006991	4.410487
hsa:1017	CDK2	IPI00031681	hsa:1027	CDKN1B	IPI00006991	4.410487
hsa:5600	MAPK11	IPI00019473	hsa:2100	ESR2	IPI00023212	4.410487
hsa:207	AKT1	IPI00012866	hsa:2100	ESR2	IPI00023212	4.410487
hsa:2872	MKNK2	IPI00396114	hsa:2100	ESR2	IPI00023212	4.410487
hsa:10114	HIPK3	IPI00099522	hsa:7026	NR2F2	IPI00028611	4.410487
hsa:2288	FKBP4	IPI00219005	hsa:1457	CSNK2A1	IPI00744507	4.410487
hsa:9049	AIP	IPI00010460	hsa:1457	CSNK2A1	IPI00744507	4.410487
hsa:8473	OGT	IPI00005780	hsa:1457	CSNK2A1	IPI00744507	4.410487
hsa:5536	PPP5C	IPI00019812	hsa:4217	MAP3K5	IPI00412433	4.410487
hsa:10273	STUB1	IPI00025156	hsa:2064	ERBB2	IPI00300384	4.410487
hsa:5598	MAPK7	IPI00376860	hsa:6256	RXRA	IPI00418394	4.410487
hsa:9646	CTR9	IPI00477468	hsa:640	BLK	IPI00554756	4.410487
hsa:1022	CDK7	IPI00000685	hsa:7421	VDR	IPI00005716	4.410487
hsa:4145	MATK	IPI00000868	hsa:2130	EWSR1	IPI00872855	4.410487
hsa:2185	PTK2B	IPI00029702	hsa:2130	EWSR1	IPI00872855	4.410487
hsa:6732	SRPK1	IPI00290439	hsa:140890	SFRS12	IPI00103497	4.410487

hsa:26576	SRPK3	IPI00010067	hsa:140890	SFRS12	IPI00103497	4.410487
hsa:24148	PRPF6	IPI00305068	hsa:369	ARAF	IPI00872240	4.410487
hsa:2289	FKBP5	IPI00218775	hsa:1147	CHUK	IPI00005104	4.410487
hsa:4215	MAP3K3	IPI00017801	hsa:3306	HSPA2	IPI00007702	4.410487
hsa:6732	SRPK1	IPI00290439	hsa:6426	SFRS1	IPI00215884	4.410487
hsa:51755	CRKRS	IPI00021175	hsa:6426	SFRS1	IPI00215884	4.410487
hsa:8899	PRPF4B	IPI00013721	hsa:6426	SFRS1	IPI00215884	4.410487
hsa:6733	SRPK2	IPI00333420	hsa:6426	SFRS1	IPI00215884	4.410487
hsa:6732	SRPK1	IPI00290439	hsa:6625	SNRP70	IPI00290204	4.410487
hsa:6732	SRPK1	IPI00290439	hsa:6294	SAFB	IPI00300631	4.410487
hsa:3984	LIMK1	IPI00291702	hsa:1028	CDKN1C	IPI00029086	4.410487
hsa:1760	DMPK	IPI00305254	hsa:10658	CUGBP1	IPI00034015	4.410487
hsa:5611	DNAJC3	IPI00006713	hsa:9451	EIF2AK3	IPI00303053	4.410487
hsa:6732	SRPK1	IPI00290439	hsa:7307	U2AF1	IPI00005613	4.410487
hsa:5563	PRKAA2	IPI00307755	hsa:3172	HNF4A	IPI00013196	4.410487
hsa:51755	CRKRS	IPI00021175	hsa:6427	SFRS2	IPI00005978	4.410487
hsa:6732	SRPK1	IPI00290439	hsa:6429	SFRS4	IPI00000015	4.410487
hsa:11040	PIM2	IPI00332692	hsa:3189	HNRPH3	IPI00013877	4.410487
hsa:6733	SRPK2	IPI00333420	hsa:11338	U2AF2	IPI00031556	4.410487
hsa:9891	NUAK1	IPI00028566	hsa:5571	PRKAG1	IPI00413318	4.410487
hsa:4214	MAP3K1	IPI00855985	hsa:4691	NCL	IPI00604620	4.410487
hsa:9020	MAP3K14	IPI00016099	hsa:4691	NCL	IPI00604620	4.410487
hsa:9020	MAP3K14	IPI00016099	hsa:3178	HNRNPA1	IPI00215965	4.410487
hsa:1025	CDK9	IPI00301923	hsa:10002	NR2E3	IPI00001888	4.410487
hsa:9020	MAP3K14	IPI00016099	hsa:6421	SFPQ	IPI00010740	4.410487
hsa:9020	MAP3K14	IPI00016099	hsa:26986	PABPC1	IPI00008524	4.410487
hsa:9020	MAP3K14	IPI00016099	hsa:6741	SSB	IPI00009032	4.410487
hsa:11035	RIPK3	IPI00294938	hsa:3313	HSPA9	IPI00007765	4.410487
hsa:8737	RIPK1	IPI00013773	hsa:3313	HSPA9	IPI00007765	4.410487
hsa:29110	TBK1	IPI00293613	hsa:3313	HSPA9	IPI00007765	4.410487
hsa:11035	RIPK3	IPI00294938	hsa:71	ACTG1	unknown	4.410487
hsa:8767	RIPK2	IPI00021917	hsa:71	ACTG1	unknown	4.410487
hsa:29110	TBK1	IPI00293613	hsa:3309	HSPA5	IPI00003362	4.410487
hsa:29110	TBK1	IPI00293613	hsa:4841	NONO	IPI00304596	4.410487
hsa:7266	DNAJC7	IPI00329629	hsa:4215	MAP3K3	IPI00017801	4.410487
hsa:10273	STUB1	IPI00025156	hsa:4215	MAP3K3	IPI00017801	4.410487
hsa:10910	SUGT1	IPI00828150	hsa:4215	MAP3K3	IPI00017801	4.410487
hsa:79657	RPAP3	IPI00002408	hsa:4215	MAP3K3	IPI00017801	4.410487
hsa:10273	STUB1	IPI00025156	hsa:9020	MAP3K14	IPI00016099	4.410487
hsa:10188	TNK2	IPI00167089	hsa:8867	SYNJ1	IPI00012441	4.410487
hsa:25865	PRKD2	IPI00009334	hsa:6625	SNRP70	IPI00290204	4.410487
hsa:3717	JAK2	IPI00031016	hsa:10146	G3BP1	IPI00012442	4.410487
hsa:2534	FYN	IPI00219012	hsa:10146	G3BP1	IPI00012442	4.410487
hsa:4214	MAP3K1	IPI00855985	hsa:2099	ESR1	IPI00294982	4.410487
hsa:25865	PRKD2	IPI00009334	hsa:6256	RXRA	IPI00418394	4.410487
hsa:25865	PRKD2	IPI00009334	hsa:5915	RARB	IPI00022989	4.410487
hsa:6449	SGTA	IPI00013949	hsa:9641	IKBKE	IPI00029045	4.410487
hsa:4678	NASP	IPI00179953	hsa:9641	IKBKE	IPI00029045	4.410487
hsa:23043	TNIK	IPI00145805	hsa:10097	ACTR2	IPI00005159	4.410487
hsa:3611	ILK	IPI00013219	hsa:22827	PUF60	IPI00069750	4.410487
hsa:8473	OGT	IPI00005780	hsa:1017	CDK2	IPI00031681	4.410487
hsa:10963	STIP1	IPI00013894	hsa:9641	IKBKE	IPI00029045	4.410487
hsa:10953	TOMM34	IPI00009946	hsa:9641	IKBKE	IPI00029045	4.410487
hsa:6767	ST13	IPI00032826	hsa:9641	IKBKE	IPI00029045	4.410487
hsa:8576	STK16	IPI00872027	hsa:3172	HNF4A	IPI00013196	4.410487
hsa:1019	CDK4	IPI00007811	hsa:57180	ACTR3B	IPI00872364	4.410487
hsa:3611	ILK	IPI00013219	hsa:3191	HNRNPL	IPI00465225	4.410487
hsa:2932	GSK3B	IPI00028570	hsa:6625	SNRP70	IPI00290204	4.410487
hsa:9641	IKBKE	IPI00029045	hsa:10642	IGF2BP1	IPI00008557	4.410487
hsa:6446	SGK	IPI00297590	hsa:26986	PABPC1	IPI00008524	4.410487

hsa:9641	IKBKE	IPI00029045	hsa:11052	CPSF6	IPI00012998	4.410487
hsa:9641	IKBKE	IPI00029045	hsa:10525	HYOU1	IPI00000877	4.410487
hsa:8767	RIPK2	IPI00021917	hsa:220988	HNRPA3	IPI00419373	4.410487
hsa:8428	STK24	IPI00002212	hsa:3189	HNRPH3	IPI00013877	4.410487
hsa:440275	EIF2AK4	IPI00163851	hsa:2130	EWSR1	IPI00872855	4.410487
hsa:1326	MAP3K8	IPI00298726	hsa:3309	HSPA5	IPI00003362	4.410487
hsa:1326	MAP3K8	IPI00298726	hsa:3313	HSPA9	IPI00007765	4.410487
hsa:1147	CHUK	IPI00005104	hsa:3313	HSPA9	IPI00007765	4.410487
hsa:1147	CHUK	IPI00005104	hsa:71	ACTG1	unknown	4.410487
hsa:996	CDC27	IPI00294575	hsa:4751	NEK2	IPI00021331	4.410487
hsa:6714	SRC	IPI00641230	hsa:1027	CDKN1B	IPI00006991	4.410487
hsa:1020	CDK5	IPI00023530	hsa:1026	CDKN1A	IPI00009384	4.410487
hsa:5601	MAPK9	IPI00024673	hsa:10262	SF3B4	IPI00017339	4.410487
hsa:6733	SRPK2	IPI00333420	hsa:11338	U2AF2	IPI00031556	4.410487
hsa:56159	TEX11	IPI00307536	hsa:143379	C10orf82	IPI00143752	4.410487
hsa:27330	RPS6KA6	IPI00007123	hsa:3164	NR4A1	IPI00743108	4.410487
hsa:2261	FGFR3	IPI00027174	hsa:3191	HNRPL	IPI00465225	4.410487
hsa:4145	MATK	IPI00000868	hsa:2130	EWSR1	IPI00872855	4.410487
hsa:440275	EIF2AK4	IPI00163851	hsa:2130	EWSR1	IPI00872855	4.410487
hsa:11040	PIM2	IPI00332692	hsa:3189	HNRPH3	IPI00013877	4.410487
hsa:4678	NASP	IPI00179953	hsa:9706	ULK2	IPI00479399	4.410487
hsa:5781	PTPN11	IPI00658023	hsa:6714	SRC	IPI00641230	4.405273
hsa:5781	PTPN11	IPI00658023	hsa:2534	FYN	IPI00219012	4.405273
hsa:5777	PTPN6	IPI00218604	hsa:3932	LCK	IPI00394952	4.405273
hsa:5781	PTPN11	IPI00658023	hsa:3932	LCK	IPI00394952	4.405273
hsa:5777	PTPN6	IPI00218604	hsa:6714	SRC	IPI00641230	4.405273
hsa:5777	PTPN6	IPI00218604	hsa:25	ABL129892	IPI00216969	4.405273
hsa:5777	PTPN6	IPI00218604	hsa:4067	LYN	IPI00298625	4.405273
hsa:5338	PLD2	IPI00024727	hsa:5335	PLCG1	IPI00016736	4.398215
hsa:2549	GAB1	IPI00031068	hsa:5336	PLCG2	IPI00329185	4.398215
hsa:9846	GAB2	IPI00186990	hsa:5336	PLCG2	IPI00329185	4.398215
hsa:1796	DOK1	IPI00015287	hsa:5335	PLCG1	IPI00016736	4.398215
hsa:1759	DNM1	IPI00873844	hsa:5335	PLCG1	IPI00016736	4.398215
hsa:2549	GAB1	IPI00031068	hsa:5335	PLCG1	IPI00016736	4.398215
hsa:8660	IRS2	IPI00464978	hsa:5335	PLCG1	IPI00016736	4.398215
hsa:3119	HLA-DQB1	IPI00005186	hsa:920	CD4	IPI00003983	4.391914
hsa:10188	TNK2	IPI00167089	hsa:255426	RASGEF1C	IPI00300415	4.387151
hsa:5566	PRKACA730418	IPI00396630	hsa:3757	KCNH2	IPI00029662	4.34748
hsa:6714	SRC	IPI00641230	hsa:3265	HRAS	IPI00000006	4.34461
hsa:25	ABL129892	IPI00216969	hsa:5901	RAN	IPI00643041	4.34461
hsa:2534	FYN	IPI00219012	hsa:3265	HRAS	IPI00000006	4.34461
hsa:4294	MAP3K10	IPI00295401	hsa:998	CDC42	IPI00007189	4.34461
hsa:10188	TNK2	IPI00167089	hsa:998	CDC42	IPI00007189	4.34461
hsa:4296	MAP3K11	IPI00000977	hsa:391	RHOG	IPI00017342	4.34461
hsa:2444	FRK	IPI00000885	hsa:5879	RAC1	IPI00010271	4.34461
hsa:27	ABL2	IPI00329488	hsa:3265	HRAS	IPI00000006	4.34461
hsa:4296	MAP3K11	IPI00000977	hsa:5879	RAC1	IPI00010271	4.34461
hsa:4296	MAP3K11	IPI00000977	hsa:998	CDC42	IPI00007189	4.34461
hsa:2242	FES	IPI00294344	hsa:5921	RASA1	IPI00026262	4.327594
hsa:6850	SYK	IPI00018597	hsa:5921	RASA1	IPI00026262	4.327594
hsa:7535	ZAP70	IPI00329789	hsa:5921	RASA1	IPI00026262	4.327594
hsa:5058	PAK1	IPI00656138	hsa:660	BMX	IPI00020899	4.307534
hsa:3454	IFNAR1	IPI00012877	hsa:1399	CRKL	IPI00004839	4.307385
hsa:3454	IFNAR1	IPI00012877	hsa:6773	STAT2	IPI00004312	4.307385
hsa:3454	IFNAR1	IPI00012877	hsa:5295	PIK3R1	IPI00021448	4.307385
hsa:3572	IL6ST	IPI00297124	hsa:9021	SOCS3	IPI00297349	4.307385
hsa:3572	IL6ST	IPI00297124	hsa:7409	VAV1	IPI00011696	4.307385
hsa:2690	GHR	IPI00023599	hsa:1154	CISH	IPI00017281	4.307385
hsa:2690	GHR	IPI00023599	hsa:6464	SHC1	IPI00645103	4.307385
hsa:2690	GHR	IPI00023599	hsa:6777	STAT5B	IPI00103415	4.307385

hsa:2690	GHR	IPI00023599	hsa:9021	SOCS3	IPI00297349	4.307385
hsa:2690	GHR	IPI00023599	hsa:8651	SOCS1	IPI00021491	4.307385
hsa:2690	GHR	IPI00023599	hsa:2887	GRB10	IPI00012752	4.307385
hsa:2690	GHR	IPI00023599	hsa:6776	STAT5A	IPI00030783	4.307385
hsa:2690	GHR	IPI00023599	hsa:8835	SOCS2	IPI00033944	4.307385
hsa:2690	GHR	IPI00023599	hsa:5295	PIK3R1	IPI00021448	4.307385
hsa:2690	GHR	IPI00023599	hsa:2885	GRB2	IPI00021327	4.307385
hsa:3953	LEPR	IPI00009243	hsa:9021	SOCS3	IPI00297349	4.307385
hsa:2057	EPOR	IPI00017476	hsa:10603	SH2B2	IPI00155706	4.307385
hsa:2057	EPOR	IPI00017476	hsa:3635	INPP5D646743	IPI00329213	4.307385
hsa:2057	EPOR	IPI00017476	hsa:6777	STAT5B	IPI00103415	4.307385
hsa:2057	EPOR	IPI00017476	hsa:5336	PLCG2	IPI00329185	4.307385
hsa:2057	EPOR	IPI00017476	hsa:8835	SOCS2	IPI00033944	4.307385
hsa:2057	EPOR	IPI00017476	hsa:10750	GRAP	IPI00013864	4.307385
hsa:2057	EPOR	IPI00017476	hsa:9021	SOCS3	IPI00297349	4.307385
hsa:2057	EPOR	IPI00017476	hsa:1154	CISH	IPI00017281	4.307385
hsa:2057	EPOR	IPI00017476	hsa:1399	CRKL	IPI00004839	4.307385
hsa:2057	EPOR	IPI00017476	hsa:6776	STAT5A	IPI00030783	4.307385
hsa:1441	CSF3R	IPI00012936	hsa:3635	INPP5D646743	IPI00329213	4.307385
hsa:1441	CSF3R	IPI00012936	hsa:1154	CISH	IPI00017281	4.307385
hsa:1441	CSF3R	IPI00012936	hsa:9021	SOCS3	IPI00297349	4.307385
hsa:3561	IL2RG	IPI00012899	hsa:6461	SHB	IPI00604688	4.307385
hsa:5618	PRLR	IPI00028640	hsa:8835	SOCS2	IPI00033944	4.307385
hsa:5618	PRLR	IPI00028640	hsa:1154	CISH	IPI00017281	4.307385
hsa:1439	CSF2RB	IPI00465234	hsa:1154	CISH	IPI00017281	4.307385
hsa:3566	IL4R	IPI00444383	hsa:6778	STAT6	IPI00030782	4.307385
hsa:3566	IL4R	IPI00444383	hsa:9655	SOCS5	IPI00022271	4.307385
hsa:1441	CSF3R	IPI00012936	hsa:6774	STAT3	IPI00784414	4.307385
hsa:3575	IL7R	IPI00292014	hsa:6774	STAT3	IPI00784414	4.307385
hsa:1439	CSF2RB	IPI00465234	hsa:6774	STAT3	IPI00784414	4.307385
hsa:149233	IL23R	IPI00303045	hsa:6774	STAT3	IPI00784414	4.307385
hsa:3454	IFNAR1	IPI00012877	hsa:6774	STAT3	IPI00784414	4.307385
hsa:3953	LEPR	IPI00009243	hsa:6774	STAT3	IPI00784414	4.307385
hsa:2690	GHR	IPI00023599	hsa:6774	STAT3	IPI00784414	4.307385
hsa:3572	IL6ST	IPI00297124	hsa:6774	STAT3	IPI00784414	4.307385
hsa:9466	IL27RA	IPI00792287	hsa:6772	STAT1	IPI00030781	4.307385
hsa:3561	IL2RG	IPI00012899	hsa:6772	STAT1	IPI00030781	4.307385
hsa:1439	CSF2RB	IPI00465234	hsa:6772	STAT1	IPI00030781	4.307385
hsa:4352	MPL	IPI00027637	hsa:6464	SHC1	IPI00645103	4.307385
hsa:3561	IL2RG	IPI00012899	hsa:6464	SHC1	IPI00645103	4.307385
hsa:1439	CSF2RB	IPI00465234	hsa:6464	SHC1	IPI00645103	4.307385
hsa:3691	ITGB4	IPI00027422	hsa:6464	SHC1	IPI00645103	4.307385
hsa:1441	CSF3R	IPI00012936	hsa:6464	SHC1	IPI00645103	4.307385
hsa:3566	IL4R	IPI00444383	hsa:6464	SHC1	IPI00645103	4.307385
hsa:2057	EPOR	IPI00017476	hsa:6464	SHC1	IPI00645103	4.307385
hsa:2057	EPOR	IPI00017476	hsa:5335	PLCG1	IPI00016736	4.307385
hsa:3977	LIFR	IPI00444272	hsa:5335	PLCG1	IPI00016736	4.307385
hsa:5618	PRLR	IPI00028640	hsa:7409	VAV1	IPI00011696	4.307385
hsa:2057	EPOR	IPI00017476	hsa:7409	VAV1	IPI00011696	4.307385
hsa:3691	ITGB4	IPI00027422	hsa:2885	GRB2	IPI00021327	4.307385
hsa:1441	CSF3R	IPI00012936	hsa:2885	GRB2	IPI00021327	4.307385
hsa:2057	EPOR	IPI00017476	hsa:2885	GRB2	IPI00021327	4.307385
hsa:3575	IL7R	IPI00292014	hsa:5295	PIK3R1	IPI00021448	4.307385
hsa:1438	CSF2RA1438	IPI00012009	hsa:5295	PIK3R1	IPI00021448	4.307385
hsa:2057	EPOR	IPI00017476	hsa:5295	PIK3R1	IPI00021448	4.307385
hsa:5618	PRLR	IPI00028640	hsa:7410	VAV2	IPI00446303	4.307385
hsa:3575	IL7R	IPI00292014	hsa:6776	STAT5A	IPI00030783	4.307385
hsa:3561	IL2RG	IPI00012899	hsa:6776	STAT5A	IPI00030783	4.307385
hsa:5618	PRLR	IPI00028640	hsa:9021	SOCS3	IPI00297349	4.307385
hsa:4352	MPL	IPI00027637	hsa:8651	SOCS1	IPI00021491	4.307385

hsa:3566	IL4R	IPI00444383	hsa:3635	INPP5D646743	IPI00329213	4.307385
hsa:3575	IL7R	IPI00292014	hsa:6777	STAT5B	IPI00103415	4.307385
hsa:3595	IL12RB2	IPI00438855	hsa:6775	STAT4	IPI00000106	4.307385
hsa:3594	IL12RB1	IPI00001400	hsa:6775	STAT4	IPI00000106	4.307385
hsa:5058	PAK1	IPI00656138	hsa:9181	ARHGEF2	IPI00472160	4.293897
hsa:6714	SRC	IPI00641230	hsa:2059	EPS8	IPI00290337	4.266439
hsa:567	B2M	IPI00004656	hsa:10859	LILRB1	IPI00643313	4.242719
hsa:3055	HCK	IPI00646510	hsa:7409	VAV1	IPI00011696	4.218668
hsa:3932	LCK	IPI00394952	hsa:7409	VAV1	IPI00011696	4.218668
hsa:2534	FYN	IPI00219012	hsa:7409	VAV1	IPI00011696	4.218668
hsa:1432	MAPK14	IPI00002857	hsa:1386	ATF2	IPI00748604	4.211403
hsa:5599	MAPK8	IPI00024672	hsa:1386	ATF2	IPI00748604	4.211403
hsa:9252	RPS6KA5	IPI00335101	hsa:1386	ATF2	IPI00748604	4.211403
hsa:1457	CSNK2A1	IPI00744507	hsa:1386	ATF2	IPI00748604	4.211403
hsa:1459	CSNK2A2	IPI00020602	hsa:1386	ATF2	IPI00748604	4.211403
hsa:5601	MAPK9	IPI00024673	hsa:11016	ATF7	IPI00015147	4.211403
hsa:8550	MAPKAPK5	IPI00160672	hsa:1386	ATF2	IPI00748604	4.211403
hsa:5603	MAPK13	IPI00005741	hsa:1386	ATF2	IPI00748604	4.211403
hsa:5600	MAPK11	IPI00019473	hsa:1386	ATF2	IPI00748604	4.211403
hsa:5601	MAPK9	IPI00024673	hsa:1386	ATF2	IPI00748604	4.211403
hsa:1263	PLK3	IPI00304186	hsa:5604	MAP2K1	IPI00219604	4.189963
hsa:7535	ZAP70	IPI00329789	hsa:6654	SOS1	IPI00020131	4.168807
hsa:5788	PTPRC	IPI00844079	hsa:5777	PTPN6	IPI00218604	4.135241
hsa:5058	PAK1	IPI00656138	hsa:3984	LIMK1	IPI00291702	4.113949
hsa:10298	PAK4	IPI00014068	hsa:3984	LIMK1	IPI00291702	4.113949
hsa:10114	HIPK3	IPI00099522	hsa:3985	LIMK2	IPI00022872	4.113949
hsa:5062	PAK2	IPI00787208	hsa:3984	LIMK1	IPI00291702	4.113949
hsa:695	BTK	IPI00029132	hsa:27071	DAPP1	IPI00384620	4.10641
hsa:695	BTK	IPI00029132	hsa:10603	SH2B2	IPI00155706	4.10641
hsa:7006	TEC	IPI00000878	hsa:26228	STAP1	IPI00015876	4.10641
hsa:55379	LRRC59	IPI00396321	hsa:3106	HLA-B	unknown	4.084589
hsa:55631	LRRC40	IPI00152998	hsa:3106	HLA-B	unknown	4.084589
hsa:57787	MARK4	IPI00064797	hsa:5584	PRKCI	IPI00016639	4.075187
hsa:5795	PTPRJ	IPI00847732	hsa:4233	MET	IPI00029273	4.061489
hsa:5800	PTPRO	IPI00241041	hsa:5292	PIM1	IPI00005014	4.061489
hsa:284217	LAMA1	IPI00375294	hsa:3339	HSPG2	IPI00024284	4.053636
hsa:4215	MAP3K3	IPI00017801	hsa:3551	IKBKB	IPI00024709	4.042947
hsa:4215	MAP3K3	IPI00017801	hsa:1147	CHUK	IPI00005104	4.042947
hsa:2242	FES	IPI00294344	hsa:22821	RASA3	IPI00032267	4.028793
hsa:2885	GRB2	IPI00021327	hsa:5921	RASA1	IPI00026262	4.024591
hsa:4690	NCK1	IPI00028065	hsa:5921	RASA1	IPI00026262	4.024591
hsa:3717	JAK2	IPI00031016	hsa:7409	VAV1	IPI00011696	4.010276
hsa:6850	SYK	IPI00018597	hsa:7410	VAV2	IPI00446303	4.010276
hsa:6850	SYK	IPI00018597	hsa:7409	VAV1	IPI00011696	4.010276
hsa:7535	ZAP70	IPI00329789	hsa:7409	VAV1	IPI00011696	4.010276
hsa:7297	TYK2	IPI00022353	hsa:7409	VAV1	IPI00011696	4.010276
hsa:1852	DUSP9	IPI00294486	hsa:1432	MAPK14	IPI00002857	4.00525
hsa:1849	DUSP7	IPI00394738	hsa:1432	MAPK14	IPI00002857	4.00525
hsa:11221	DUSP10	IPI00026987	hsa:1432	MAPK14	IPI00002857	4.00525
hsa:80824	DUSP16	IPI00028428	hsa:1432	MAPK14	IPI00002857	4.00525
hsa:51657	STYXL1	IPI00007125	hsa:7046	TGFBR1	IPI00005733	4.00525
hsa:1852	DUSP9	IPI00294486	hsa:5594	MAPK1	IPI00003479	4.00525
hsa:1848	DUSP6	IPI00004390	hsa:5594	MAPK1	IPI00003479	4.00525
hsa:80824	DUSP16	IPI00028428	hsa:5594	MAPK1	IPI00003479	4.00525
hsa:1849	DUSP7	IPI00394738	hsa:5594	MAPK1	IPI00003479	4.00525
hsa:1849	DUSP7	IPI00394738	hsa:5599	MAPK8	IPI00024672	4.00525
hsa:11221	DUSP10	IPI00026987	hsa:5599	MAPK8	IPI00024672	4.00525
hsa:80824	DUSP16	IPI00028428	hsa:5599	MAPK8	IPI00024672	4.00525
hsa:1852	DUSP9	IPI00294486	hsa:5595	MAPK3	IPI00018195	4.00525
hsa:11221	DUSP10	IPI00026987	hsa:5595	MAPK3	IPI00018195	4.00525

hsa:1848	DUSP6	IPI00004390	hsa:5595	MAPK3	IPI00018195	4.00525
hsa:11221	DUSP10	IPI00026987	hsa:5602	MAPK10	IPI00023547	4.00525
hsa:80824	DUSP16	IPI00028428	hsa:5602	MAPK10	IPI00023547	4.00525
hsa:80824	DUSP16	IPI00028428	hsa:5601	MAPK9	IPI00024673	4.00525
hsa:11221	DUSP10	IPI00026987	hsa:5600	MAPK11	IPI00019473	4.00525
hsa:80824	DUSP16	IPI00028428	hsa:5600	MAPK11	IPI00019473	4.00525
hsa:6714	SRC	IPI00641230	hsa:7074	TIAM1	IPI00011400	3.972906
hsa:5590	PRK CZ	IPI00013749	hsa:5604	MAP2K1	IPI00219604	3.957832
hsa:8986	RPS6KA4	IPI00022536	hsa:5604	MAP2K1	IPI00219604	3.957832
hsa:6196	RPS6KA2	IPI00300321	hsa:5604	MAP2K1	IPI00219604	3.957832
hsa:11183	MAP4K5	IPI00294842	hsa:613	BCR	IPI00004497	3.953405
hsa:2017	CTTN	IPI00029601	hsa:1785	DNM2	IPI00033022	3.948436
hsa:2017	CTTN	IPI00029601	hsa:1759	DNM1	IPI00873844	3.948436
hsa:7159	TP53BP2	IPI00337588	hsa:11060	WWP2	IPI00013010	3.948436
hsa:7159	TP53BP2	IPI00337588	hsa:11059	WWP1	IPI00013009	3.948436
hsa:1793	DOCK1	IPI00015286	hsa:63916	ELMO2	IPI00260090	3.948436
hsa:4688	NCF2	IPI00021070	hsa:84958	SYTL1	IPI00217789	3.948436
hsa:2533	FYB	IPI00446986	hsa:8935	SKAP2	IPI00022508	3.948436
hsa:30011	SH3KBP1	IPI00294962	hsa:4734	NEDD4	IPI00009322	3.948436
hsa:30011	SH3KBP1	IPI00294962	hsa:5290	PIK3CA	IPI00031386	3.948436
hsa:4739	NEDD9	IPI00031407	hsa:83737	ITCH	IPI00061780	3.948436
hsa:273	AMPH	IPI00305486	hsa:1785	DNM2	IPI00033022	3.948436
hsa:6456	SH3GL2	IPI00019171	hsa:1785	DNM2	IPI00033022	3.948436
hsa:51429	SNX9	IPI00001883	hsa:1759	DNM1	IPI00873844	3.948436
hsa:23048	FBNP1	IPI00807625	hsa:1785	DNM2	IPI00033022	3.948436
hsa:274	BIN1	IPI00186966	hsa:5338	PLD2	IPI00024727	3.948436
hsa:273	AMPH	IPI00305486	hsa:5338	PLD2	IPI00024727	3.948436
hsa:274	BIN1	IPI00186966	hsa:1785	DNM2	IPI00033022	3.948436
hsa:51100	SH3GLB1	IPI00006558	hsa:1785	DNM2	IPI00033022	3.948436
hsa:51429	SNX9	IPI00001883	hsa:1785	DNM2	IPI00033022	3.948436
hsa:23048	FBNP1	IPI00807625	hsa:1759	DNM1	IPI00873844	3.948436
hsa:29763	PACSIN3	IPI00329572	hsa:1759	DNM1	IPI00873844	3.948436
hsa:29993	PACSIN1	IPI00011515	hsa:1759	DNM1	IPI00873844	3.948436
hsa:6456	SH3GL2	IPI00019171	hsa:1759	DNM1	IPI00873844	3.948436
hsa:6457	SH3GL3	IPI00019172	hsa:1759	DNM1	IPI00873844	3.948436
hsa:274	BIN1	IPI00186966	hsa:1759	DNM1	IPI00873844	3.948436
hsa:273	AMPH	IPI00305486	hsa:1759	DNM1	IPI00873844	3.948436
hsa:6455	SH3GL1	IPI00019169	hsa:1759	DNM1	IPI00873844	3.948436
hsa:2533	FYB	IPI00446986	hsa:8631	SKAP1	IPI00289536	3.948436
hsa:6456	SH3GL2	IPI00019171	hsa:83737	ITCH	IPI00061780	3.948436
hsa:54440	CXorf9	IPI00004504	hsa:57154	SMURF1	IPI00217054	3.948436
hsa:23048	FBNP1	IPI00807625	hsa:26052	DNM3	IPI00221332	3.948436
hsa:5797	PTPRM	IPI00293849	hsa:5125	PCSK5	IPI00294862	3.94665
hsa:6850	SYK	IPI00018597	hsa:5296	PIK3R2	IPI00011736	3.935196
hsa:5328	PLAU	IPI00296180	hsa:6768	ST14	IPI00001922	3.920433
hsa:4018	LPA	IPI00029168	hsa:1990	ELA1	IPI00019729	3.920433
hsa:4018	LPA	IPI00029168	hsa:1991	ELA2	IPI00027769	3.920433
hsa:5058	PAK1	IPI00656138	hsa:207	AKT1	IPI00012866	3.913667
hsa:5582	PRKCG	IPI00007128	hsa:1856	DVL2	IPI00023103	3.897744
hsa:5579	PRKCB1	IPI00010466	hsa:1856	DVL2	IPI00023103	3.897744
hsa:5578	PRKCA	IPI00385449	hsa:1856	DVL2	IPI00023103	3.897744
hsa:54472	TOLLIP	IPI00100154	hsa:3654	IRAK1	IPI00293652	3.895931
hsa:5787	PTPRB	IPI00295577	hsa:4233	MET	IPI00029273	3.888611
hsa:5794	PTPRH	IPI00760988	hsa:5594	MAPK1	IPI00003479	3.888611
hsa:5794	PTPRH	IPI00760988	hsa:5747	PTK2	IPI00012885	3.888611
hsa:5788	PTPRC	IPI00844079	hsa:1457	CSNK2A1	IPI00744507	3.888611
hsa:5788	PTPRC	IPI00844079	hsa:1459	CSNK2A2	IPI00020602	3.888611
hsa:3716	JAK1	IPI00443765	hsa:10603	SH2B2	IPI00155706	3.870408
hsa:3717	JAK2	IPI00031016	hsa:25970	SH2B1	IPI00016441	3.870408
hsa:3717	JAK2	IPI00031016	hsa:10603	SH2B2	IPI00155706	3.870408

hsa:3717	JAK2	IPI00031016	hsa:55620	STAP2	IPI00383883	3.870408
hsa:3717	JAK2	IPI00031016	hsa:2887	GRB10	IPI00012752	3.870408
hsa:6850	SYK	IPI00018597	hsa:10603	SH2B2	IPI00155706	3.870408
hsa:6850	SYK	IPI00018597	hsa:6452	SH3BP2	IPI00218997	3.870408
hsa:3718	JAK3	IPI00002773	hsa:10603	SH2B2	IPI00155706	3.870408
hsa:7535	ZAP70	IPI00329789	hsa:6452	SH3BP2	IPI00218997	3.870408
hsa:7535	ZAP70	IPI00329789	hsa:10019	SH2B3	IPI00010821	3.870408
hsa:55423	SIRPG	IPI00032061	hsa:961	CD47	IPI00374740	3.864441
hsa:140885	SIRPA	IPI00656087	hsa:3556	IL1RAP	IPI00031789	3.864441
hsa:941	CD80	IPI00015914	hsa:940	CD28	IPI00022339	3.864441
hsa:140885	SIRPA	IPI00656087	hsa:961	CD47	IPI00374740	3.864441
hsa:1462	VCAN	IPI00009802	hsa:2200	FBN1	IPI00328113	3.850265
hsa:5335	PLCG1	IPI00016736	hsa:8525	DGKZ	IPI00013835	3.85004
hsa:22983	MAST1	IPI00027883	hsa:6640	SNTA1	IPI00164528	3.821611
hsa:22983	MAST1	IPI00027883	hsa:6645	SNTB2	IPI00009505	3.821611
hsa:23139	MAST2	IPI00514071	hsa:6645	SNTB2	IPI00009505	3.821611
hsa:6709	SPTAN1	IPI00844215	hsa:50944	SHANK1	IPI00007695	3.81383
hsa:3055	HCK	IPI00646510	hsa:8935	SKAP2	IPI00022508	3.790036
hsa:3932	LCK	IPI00394952	hsa:8631	SKAP1	IPI00289536	3.790036
hsa:6714	SRC	IPI00641230	hsa:8631	SKAP1	IPI00289536	3.790036
hsa:4067	LYN	IPI00298625	hsa:8935	SKAP2	IPI00022508	3.790036
hsa:4067	LYN	IPI00298625	hsa:8631	SKAP1	IPI00289536	3.790036
hsa:2534	FYN	IPI00219012	hsa:8935	SKAP2	IPI00022508	3.790036
hsa:2534	FYN	IPI00219012	hsa:8631	SKAP1	IPI00289536	3.790036
hsa:8573	CASK	IPI00514301	hsa:5864	RAB3A	IPI00023504	3.787266
hsa:3636	INPPL1	IPI00016932	hsa:10174	SORBS3	IPI00419847	3.776765
hsa:3636	INPPL1	IPI00016932	hsa:10580	SORBS1	IPI00186452	3.776765
hsa:3636	INPPL1	IPI00016932	hsa:9564	BCAR1	IPI00872386	3.776765
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hsa:2885	GRB2	IPI00021327	hsa:51517	NCKIPSD	IPI00009319	3.776765
hsa:5295	PIK3R1	IPI00021448	hsa:1398	CRK	IPI00004838	3.776765
hsa:5295	PIK3R1	IPI00021448	hsa:10451	VAV3	IPI00299763	3.776765
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hsa:5295	PIK3R1	IPI00021448	hsa:1399	CRKL	IPI00004839	3.776765
hsa:5295	PIK3R1	IPI00021448	hsa:30011	SH3KBP1	IPI00294962	3.776765
hsa:1398	CRK	IPI00004838	hsa:4739	NEDD9	IPI00031407	3.776765
hsa:29760	BLNK	IPI00002434	hsa:1399	CRKL	IPI00004839	3.776765
hsa:29760	BLNK	IPI00002434	hsa:4690	NCK1	IPI00028065	3.776765
hsa:29760	BLNK	IPI00002434	hsa:30011	SH3KBP1	IPI00294962	3.776765
hsa:1399	CRKL	IPI00004839	hsa:4739	NEDD9	IPI00031407	3.776765
hsa:1399	CRKL	IPI00004839	hsa:1794	DOCK2	IPI00022449	3.776765
hsa:4068	SH2D1A	IPI00032401	hsa:2533	FYB	IPI00446986	3.776765
hsa:6461	SHB	IPI00604688	hsa:9402	GRAP2	IPI00026928	3.776765
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hsa:3937	LCP2	IPI00297169	hsa:4690	NCK1	IPI00028065	3.776765
hsa:8651	SOCS1	IPI00021491	hsa:4690	NCK1	IPI00028065	3.776765
hsa:30837	SOCS7	IPI00022329	hsa:10174	SORBS3	IPI00419847	3.776765
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hsa:8651	SOCS1	IPI00021491	hsa:2885	GRB2	IPI00021327	3.776765
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hsa:30837	SOCS7	IPI00022329	hsa:2885	GRB2	IPI00021327	3.776765
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hsa:63898	SH2D4A	IPI00100731	hsa:6455	SH3GL1	IPI00019169	3.776765
hsa:5792	PTPRF	IPI00107831	hsa:3932	LCK	IPI00394952	3.770359
hsa:5792	PTPRF	IPI00107831	hsa:2534	FYN	IPI00219012	3.770359
hsa:3932	LCK	IPI00394952	hsa:50619	DEF6	IPI00004924	3.769506
hsa:3055	HCK	IPI00646510	hsa:22821	RASA3	IPI00032267	3.76487
hsa:3689	ITGB2	IPI00291792	hsa:3611	ILK	IPI00013219	3.75599
hsa:3688	ITGB1	IPI00217563	hsa:3611	ILK	IPI00013219	3.75599
hsa:3690	ITGB3	IPI00303283	hsa:3611	ILK	IPI00013219	3.75599
hsa:5777	PTPN6	IPI00218604	hsa:7535	ZAP70	IPI00329789	3.748616
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hsa:5777	PTPN6	IPI00218604	hsa:3716	JAK1	IPI00443765	3.748616
hsa:5781	PTPN11	IPI00658023	hsa:3716	JAK1	IPI00443765	3.748616
hsa:5777	PTPN6	IPI00218604	hsa:3717	JAK2	IPI00031016	3.748616
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hsa:5777	PTPN6	IPI00218604	hsa:3718	JAK3	IPI00002773	3.748616
hsa:387	RHOA	IPI00478231	hsa:11113	CIT	IPI00022465	3.731886
hsa:389	RHOC	IPI00027434	hsa:11113	CIT	IPI00022465	3.731886
hsa:7046	TGFBR1	IPI00005733	hsa:55111	PLEKHJ1	IPI00644031	3.717411
hsa:7046	TGFBR1	IPI00005733	hsa:58473	PLEKHB1	IPI00009635	3.717411
hsa:7046	TGFBR1	IPI00005733	hsa:55843	ARHGAP15	IPI00182116	3.717411
hsa:7046	TGFBR1	IPI00005733	hsa:79674	VEPH1	IPI00478192	3.717411
hsa:2261	FGFR3	IPI00027174	hsa:116985	CENTD2	IPI00479190	3.717411
hsa:5979	RET	IPI00013983	hsa:220164	DOK6	IPI00400860	3.717411
hsa:5979	RET	IPI00013983	hsa:79930	DOK3	IPI00156649	3.717411
hsa:5979	RET	IPI00013983	hsa:55816	DOK5	IPI00020443	3.717411
hsa:5979	RET	IPI00013983	hsa:55715	DOK4	IPI00550728	3.717411
hsa:5979	RET	IPI00013983	hsa:9046	DOK2	IPI00022602	3.717411
hsa:5979	RET	IPI00013983	hsa:2549	GAB1	IPI00031068	3.717411
hsa:5979	RET	IPI00013983	hsa:1796	DOK1	IPI00015287	3.717411
hsa:4233	MET	IPI00029273	hsa:2549	GAB1	IPI00031068	3.717411
hsa:5594	MAPK1	IPI00003479	hsa:3667	IRS1	IPI00019471	3.717411
hsa:5594	MAPK1	IPI00003479	hsa:9846	GAB2	IPI00186990	3.717411
hsa:5594	MAPK1	IPI00003479	hsa:2549	GAB1	IPI00031068	3.717411
hsa:5580	PRKCD	IPI00329236	hsa:3667	IRS1	IPI00019471	3.717411
hsa:5580	PRKCD	IPI00329236	hsa:5338	PLD2	IPI00024727	3.717411

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hsa:5599	MAPK8	IPI00024672	hsa:5587	PRKD1	IPI00782950	3.717411
hsa:5599	MAPK8	IPI00024672	hsa:3667	IRS1	IPI00019471	3.717411
hsa:5595	MAPK3	IPI00018195	hsa:9846	GAB2	IPI00186990	3.717411
hsa:5595	MAPK3	IPI00018195	hsa:2549	GAB1	IPI00031068	3.717411
hsa:5595	MAPK3	IPI00018195	hsa:156	ADRBK1	IPI00012497	3.717411
hsa:1956	EGFR	IPI00018274	hsa:5337	PLD1	IPI00012865	3.717411
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hsa:1956	EGFR	IPI00018274	hsa:2549	GAB1	IPI00031068	3.717411
hsa:1956	EGFR	IPI00018274	hsa:5338	PLD2	IPI00024727	3.717411
hsa:1020	CDK5	IPI00023530	hsa:1759	DNM1	IPI00873844	3.717411
hsa:5747	PTK2	IPI00012885	hsa:3667	IRS1	IPI00019471	3.717411
hsa:5747	PTK2	IPI00012885	hsa:1785	DNM2	IPI00033022	3.717411
hsa:90	ACVR1	IPI00029219	hsa:79674	VEPH1	IPI00478192	3.717411
hsa:90	ACVR1	IPI00029219	hsa:55111	PLEKHJ1	IPI00644031	3.717411
hsa:90	ACVR1	IPI00029219	hsa:58473	PLEKHB1	IPI00009635	3.717411
hsa:983	CDC2	IPI00073536	hsa:1785	DNM2	IPI00033022	3.717411
hsa:238	ALK	IPI00395632	hsa:3667	IRS1	IPI00019471	3.717411
hsa:1452	CSNK1A1	IPI00183400	hsa:11033	CENTA1	IPI00009992	3.717411
hsa:5590	PRKCZ	IPI00013749	hsa:11033	CENTA1	IPI00009992	3.717411
hsa:5590	PRKCZ	IPI00013749	hsa:8471	IRS4	IPI00020729	3.717411
hsa:658	BMPR1B	IPI00010862	hsa:79674	VEPH1	IPI00478192	3.717411
hsa:658	BMPR1B	IPI00010862	hsa:58473	PLEKHB1	IPI00009635	3.717411
hsa:5584	PRKCI	IPI00016639	hsa:11033	CENTA1	IPI00009992	3.717411
hsa:1457	CSNK2A1	IPI00744507	hsa:51177	PLEKH01	IPI00016877	3.717411
hsa:3815	KIT	IPI00022296	hsa:1796	DOK1	IPI00015287	3.717411
hsa:5159	PDGFRB	IPI00015902	hsa:2549	GAB1	IPI00031068	3.717411
hsa:9448	MAP4K4	IPI00006752	hsa:1796	DOK1	IPI00015287	3.717411
hsa:207	AKT1	IPI00012866	hsa:26060	APPL1	IPI00015836	3.717411
hsa:207	AKT1	IPI00012866	hsa:9846	GAB2	IPI00186990	3.717411
hsa:3643	INSR	IPI00220325	hsa:55715	DOK4	IPI00550728	3.717411
hsa:3643	INSR	IPI00220325	hsa:2549	GAB1	IPI00031068	3.717411
hsa:3643	INSR	IPI00220325	hsa:1796	DOK1	IPI00015287	3.717411
hsa:3643	INSR	IPI00220325	hsa:8660	IRS2	IPI00464978	3.717411
hsa:3643	INSR	IPI00220325	hsa:55816	DOK5	IPI00020443	3.717411
hsa:4914	NTRK1	IPI00025076	hsa:8660	IRS2	IPI00464978	3.717411
hsa:7010	TEK	IPI00412829	hsa:9046	DOK2	IPI00022602	3.717411
hsa:7010	TEK	IPI00412829	hsa:55715	DOK4	IPI00550728	3.717411
hsa:3480	IGF1R	IPI00027232	hsa:55715	DOK4	IPI00550728	3.717411
hsa:3480	IGF1R	IPI00027232	hsa:55816	DOK5	IPI00020443	3.717411
hsa:5601	MAPK9	IPI00024673	hsa:5587	PRKD1	IPI00782950	3.717411
hsa:2931	GSK3A	IPI00292228	hsa:23683	PRKD3	IPI00015538	3.717411
hsa:6732	SRPK1	IPI00290439	hsa:55612	C20orf42	IPI00304754	3.717411
hsa:4593	MUSK	IPI00655599	hsa:285489	DOK7	IPI00783590	3.717411
hsa:2064	ERBB2	IPI00300384	hsa:8471	IRS4	IPI00020729	3.717411
hsa:2064	ERBB2	IPI00300384	hsa:3667	IRS1	IPI00019471	3.717411
hsa:2064	ERBB2	IPI00300384	hsa:220164	DOK6	IPI00400860	3.717411
hsa:2064	ERBB2	IPI00300384	hsa:55715	DOK4	IPI00550728	3.717411
hsa:2064	ERBB2	IPI00300384	hsa:1796	DOK1	IPI00015287	3.717411
hsa:4214	MAP3K1	IPI00855985	hsa:8471	IRS4	IPI00020729	3.717411
hsa:4914	NTRK1	IPI00025076	hsa:23612	PHLDA3	IPI00329599	3.717411
hsa:5590	PRKCZ	IPI00013749	hsa:60312	AFAP1	IPI00444138	3.717411
hsa:5580	PRKCD	IPI00329236	hsa:60312	AFAP1	IPI00444138	3.717411
hsa:29941	PKN3	IPI00413780	hsa:5337	PLD1	IPI00012865	3.717411
hsa:4914	NTRK1	IPI00025076	hsa:3667	IRS1	IPI00019471	3.717411
hsa:6093	ROCK1	IPI00022542	hsa:3667	IRS1	IPI00019471	3.717411
hsa:1147	CHUK	IPI00005104	hsa:3667	IRS1	IPI00019471	3.717411
hsa:5588	PRKCQ	IPI00029196	hsa:3667	IRS1	IPI00019471	3.717411
hsa:5170	PDPK1	IPI00002538	hsa:3667	IRS1	IPI00019471	3.717411
hsa:23235	SNF1LK2	IPI00465291	hsa:3667	IRS1	IPI00019471	3.717411

hsa:3551	IKBKB	IPI00024709	hsa:3667	IRS1	IPI00019471	3.717411
hsa:5601	MAPK9	IPI00024673	hsa:3667	IRS1	IPI00019471	3.717411
hsa:5590	PRKCZ	IPI00013749	hsa:3667	IRS1	IPI00019471	3.717411
hsa:207	AKT1	IPI00012866	hsa:3667	IRS1	IPI00019471	3.717411
hsa:3643	INSR	IPI00220325	hsa:3667	IRS1	IPI00019471	3.717411
hsa:3480	IGF1R	IPI00027232	hsa:3667	IRS1	IPI00019471	3.717411
hsa:1457	CSNK2A1	IPI00744507	hsa:3667	IRS1	IPI00019471	3.717411
hsa:3791	KDR	IPI00021396	hsa:1785	DNM2	IPI00033022	3.717411
hsa:4486	MST1R	IPI00030273	hsa:2549	GAB1	IPI00031068	3.717411
hsa:5596	MAPK4	IPI00010156	hsa:2549	GAB1	IPI00031068	3.717411
hsa:4215	MAP3K3	IPI00017801	hsa:2549	GAB1	IPI00031068	3.717411
hsa:3480	IGF1R	IPI00027232	hsa:8471	IRS4	IPI00020729	3.717411
hsa:5596	MAPK4	IPI00010156	hsa:9846	GAB2	IPI00186990	3.717411
hsa:3480	IGF1R	IPI00027232	hsa:8660	IRS2	IPI00464978	3.717411
hsa:1455	CSNK1G2	IPI00297767	hsa:10087	COL4A3BP	IPI00024701	3.717411
hsa:208	AKT2	IPI00012870	hsa:26060	APPL1	IPI00015836	3.717411
hsa:1956	EGFR	IPI00018274	hsa:26060	APPL1	IPI00015836	3.717411
hsa:1956	EGFR	IPI00018274	hsa:55715	DOK4	IPI00550728	3.717411
hsa:1956	EGFR	IPI00018274	hsa:55816	DOK5	IPI00020443	3.717411
hsa:1956	EGFR	IPI00018274	hsa:220164	DOK6	IPI00400860	3.717411
hsa:1956	EGFR	IPI00018274	hsa:3667	IRS1	IPI00019471	3.717411
hsa:1956	EGFR	IPI00018274	hsa:8471	IRS4	IPI00020729	3.717411
hsa:1455	CSNK1G2	IPI00297767	hsa:10087	COL4A3BP	IPI00024701	3.717411
hsa:2261	FGFR3	IPI00027174	hsa:116985	CENTD2	IPI00479190	3.717411
hsa:3055	HCK	IPI00646510	hsa:5296	PIK3R2	IPI00011736	3.713187
hsa:2534	FYN	IPI00219012	hsa:5296	PIK3R2	IPI00011736	3.713187
hsa:7535	ZAP70	IPI00329789	hsa:50619	DEF6	IPI00004924	3.709862
hsa:8036	SHOC2	IPI00298928	hsa:4893	NRAS	IPI00000005	3.626115
hsa:7097	TLR2	IPI00019006	hsa:5879	RAC1	IPI00010271	3.626115
hsa:54106	TLR911344	IPI00010140	hsa:3265	HRAS	IPI00000006	3.626115
hsa:7097	TLR2	IPI00019006	hsa:3265	HRAS	IPI00000006	3.626115
hsa:8036	SHOC2	IPI00298928	hsa:3265	HRAS	IPI00000006	3.626115
hsa:5875	RABGGTA	IPI00022664	hsa:5861	RAB1A	IPI00005719	3.626115
hsa:8036	SHOC2	IPI00298928	hsa:3845	KRAS	IPI00423568	3.626115
hsa:6197	RPS6KA3	IPI00020898	hsa:50944	SHANK1	IPI00007695	3.613373
hsa:6196	RPS6KA2	IPI00300321	hsa:50944	SHANK1	IPI00007695	3.613373
hsa:7046	TGFBR1	IPI00005733	hsa:3987	LIMS1	IPI00872358	3.60858
hsa:7048	TGFBR2	IPI00020431	hsa:7041	TGFB1I1	IPI00761017	3.60858
hsa:5594	MAPK1	IPI00003479	hsa:2275	FHL3	IPI00014399	3.60858
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hsa:6850	SYK	IPI00018597	hsa:5829	PXN	IPI00335634	3.60858
hsa:5599	MAPK8	IPI00024672	hsa:5829	PXN	IPI00335634	3.60858
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hsa:7273	TTN	IPI00759754	hsa:2274	FHL2	IPI00743342	3.60858
hsa:5747	PTK2	IPI00012885	hsa:5829	PXN	IPI00335634	3.60858
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hsa:5058	PAK1	IPI00656138	hsa:5829	PXN	IPI00335634	3.60858
hsa:2932	GSK3B	IPI00028570	hsa:5829	PXN	IPI00335634	3.60858
hsa:5170	PDPK1	IPI00002538	hsa:5829	PXN	IPI00335634	3.60858
hsa:9448	MAP4K4	IPI00006752	hsa:6885	MAP3K7	IPI00295738	3.60858
hsa:5592	PRKG1	IPI00436355	hsa:1397	CRIP2	IPI00006034	3.60858
hsa:2185	PTK2B	IPI00029702	hsa:7041	TGFB1I1	IPI00761017	3.60858
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hsa:11184	MAP4K1	IPI00020258	hsa:6885	MAP3K7	IPI00295738	3.60858
hsa:1025	CDK9	IPI00301923	hsa:9204	ZMYM6	IPI00827877	3.60858
hsa:1022	CDK7	IPI00000685	hsa:2966	GTF2H2	IPI00426640	3.60858
hsa:10114	HIPK3	IPI00099522	hsa:8994	LIMD1	IPI00003369	3.60858
hsa:10114	HIPK3	IPI00099522	hsa:55679	LIMS2	IPI00815737	3.60858

hsa:3611	ILK	IPI00013219	hsa:55679	LIMS2	IPI00815737	3.60858
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hsa:5563	PRKAA2	IPI00307755	hsa:7205	TRIP6	IPI00301561	3.60858
hsa:9392	TGFBRAP1	IPI00550891	hsa:94	ACVRL1	IPI00293271	3.60858
hsa:11035	RIPK3	IPI00294938	hsa:51474	LIMA1	IPI00008918	3.60858
hsa:4215	MAP3K3	IPI00017801	hsa:51474	LIMA1	IPI00008918	3.60858
hsa:23043	TNIK	IPI00145805	hsa:5594	MAPK1	IPI00003479	3.60858
hsa:9641	IKBKE	IPI00029045	hsa:2273	FHL1	IPI00647207	3.60858
hsa:9392	TGFBRAP1	IPI00550891	hsa:7046	TGFBR1	IPI00005733	3.60858
hsa:9392	TGFBRAP1	IPI00550891	hsa:7048	TGFBR2	IPI00020431	3.60858
hsa:10114	HIPK3	IPI00099522	hsa:7791	ZYX	IPI00871311	3.60858
hsa:9113	LATS1	IPI00005858	hsa:7791	ZYX	IPI00871311	3.60858
hsa:26524	LATS2	IPI00016690	hsa:84962	JUB	IPI00063605	3.60858
hsa:57144	PAK7	IPI00001814	hsa:2275	FHL3	IPI00014399	3.60858
hsa:9392	TGFBRAP1	IPI00550891	hsa:657	BMPRI1A	IPI00005731	3.60858
hsa:9392	TGFBRAP1	IPI00550891	hsa:93	ACVR2B	IPI00437565	3.60858
hsa:10461	MERTK	IPI00029756	hsa:8543	LMO4	IPI00297604	3.60858
hsa:2931	GSK3A	IPI00292228	hsa:5829	PXN	IPI00335634	3.60858
hsa:2185	PTK2B	IPI00029702	hsa:5829	PXN	IPI00335634	3.60858
hsa:3611	ILK	IPI00013219	hsa:5829	PXN	IPI00335634	3.60858
hsa:2047	EPHB1	IPI00008315	hsa:5829	PXN	IPI00335634	3.60858
hsa:3984	LIMK1	IPI00291702	hsa:5829	PXN	IPI00335634	3.60858
hsa:5063	PAK3	IPI00410084	hsa:5829	PXN	IPI00335634	3.60858
hsa:10114	HIPK3	IPI00099522	hsa:7041	TGFB1I1	IPI00761017	3.60858
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hsa:9392	TGFBRAP1	IPI00550891	hsa:91	ACVR1B	IPI00005732	3.60858
hsa:57144	PAK7	IPI00001814	hsa:2275	FHL3	IPI00014399	3.60858
hsa:5581	PRKCE	IPI00024539	hsa:7074	TIAM1	IPI00011400	3.603252
hsa:5578	PRKCA	IPI00385449	hsa:7074	TIAM1	IPI00011400	3.603252
hsa:5582	PRKCG	IPI00007128	hsa:7074	TIAM1	IPI00011400	3.603252
hsa:868	CBLB	IPI00292856	hsa:5979	RET	IPI00013983	3.566742
hsa:868	CBLB	IPI00292856	hsa:1956	EGFR	IPI00018274	3.566742
hsa:5795	PTPRJ	IPI00847732	hsa:1956	EGFR	IPI00018274	3.555177
hsa:8506	CNTNAP1	IPI00219249	hsa:23114	NFASC	IPI00513705	3.546723
hsa:26047	CNTNAP2	IPI00029343	hsa:6900	CNTN2	IPI00024966	3.546723
hsa:4684	NCAM1	IPI00435020	hsa:1463	NCAN	IPI00159927	3.536392
hsa:3897	L1CAM	IPI00027087	hsa:1463	NCAN	IPI00159927	3.536392
hsa:5781	PTPN11	IPI00658023	hsa:5583	PRKCH	IPI00031610	3.511445
hsa:5781	PTPN11	IPI00658023	hsa:5579	PRKCB1	IPI00010466	3.511445
hsa:5781	PTPN11	IPI00658023	hsa:5578	PRKCA	IPI00385449	3.511445
hsa:5777	PTPN6	IPI00218604	hsa:5578	PRKCA	IPI00385449	3.511445
hsa:6300	MAPK12	IPI00296283	hsa:5998	RGS3	IPI00181533	3.477853
hsa:10114	HIPK3	IPI00099522	hsa:5998	RGS3	IPI00181533	3.477853
hsa:3055	HCK	IPI00646510	hsa:5921	RASA1	IPI00026262	3.472814
hsa:3932	LCK	IPI00394952	hsa:5921	RASA1	IPI00026262	3.472814
hsa:6714	SRC	IPI00641230	hsa:5921	RASA1	IPI00026262	3.472814
hsa:25	ABL129892	IPI00216969	hsa:5921	RASA1	IPI00026262	3.472814
hsa:4067	LYN	IPI00298625	hsa:5921	RASA1	IPI00026262	3.472814
hsa:1445	CSK	IPI00013212	hsa:5921	RASA1	IPI00026262	3.472814
hsa:7525	YES1	IPI00013981	hsa:5921	RASA1	IPI00026262	3.472814
hsa:11060	WWP2	IPI00013010	hsa:9260	PDLIM7	IPI00023122	3.454882
hsa:80125	CCDC33	IPI00376874	hsa:1856	DVL2	IPI00023103	3.454882
hsa:23072	HECW1	IPI00173347	hsa:1855	DVL1	IPI00023100	3.454882
hsa:23236	PLCB1	IPI00219563	hsa:9368	SLC9A3R1	IPI00003527	3.454882
hsa:5330	PLCB2	IPI00744517	hsa:9368	SLC9A3R1	IPI00003527	3.454882
hsa:6857	SYT1	IPI00009439	hsa:22999	RIMS1	IPI00387015	3.454882
hsa:10497	UNC13B	IPI00478689	hsa:22999	RIMS1	IPI00387015	3.454882
hsa:5331	PLCB3	IPI00010400	hsa:9351	SLC9A3R2	IPI00385034	3.454882
hsa:5331	PLCB3	IPI00010400	hsa:56288	PARD3	IPI00154915	3.454882
hsa:23236	PLCB1	IPI00219563	hsa:56288	PARD3	IPI00154915	3.454882

hsa:5331	PLCB3	IPI00010400	hsa:50855	PARD6A	IPI00027217	3.454882
hsa:23236	PLCB1	IPI00219563	hsa:50855	PARD6A	IPI00027217	3.454882
hsa:23236	PLCB1	IPI00219563	hsa:6002	RGS12	IPI00024714	3.454882
hsa:5331	PLCB3	IPI00010400	hsa:6002	RGS12	IPI00024714	3.454882
hsa:57154	SMURF1	IPI00217054	hsa:85415	RHPN2	IPI00292548	3.454882
hsa:827	CAPN6	IPI00002547	hsa:9368	SLC9A3R1	IPI00003527	3.454882
hsa:5331	PLCB3	IPI00010400	hsa:9368	SLC9A3R1	IPI00003527	3.454882
hsa:11060	WWP2	IPI00013010	hsa:9260	PDLIM7	IPI00023122	3.454882
hsa:2260	FGFR1	IPI00005142	hsa:2065	ERBB3	IPI00298285	3.453922
hsa:994	CDC25B	IPI00291990	hsa:9833	MELK	IPI00006471	3.430379
hsa:994	CDC25B	IPI00291990	hsa:1111	CHEK1	IPI00023664	3.430379
hsa:994	CDC25B	IPI00291990	hsa:84446	BRSK1	IPI00148020	3.430379
hsa:994	CDC25B	IPI00291990	hsa:9024	BRSK2	IPI00744296	3.430379
hsa:994	CDC25B	IPI00291990	hsa:1457	CSNK2A1	IPI00744507	3.430379
hsa:995	CDC25C	IPI00216683	hsa:84446	BRSK1	IPI00148020	3.430379
hsa:995	CDC25C	IPI00216683	hsa:9024	BRSK2	IPI00744296	3.430379
hsa:995	CDC25C	IPI00216683	hsa:11200	CHEK2	IPI00014072	3.430379
hsa:995	CDC25C	IPI00216683	hsa:1111	CHEK1	IPI00023664	3.430379
hsa:995	CDC25C	IPI00216683	hsa:1263	PLK3	IPI00304186	3.430379
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hsa:995	CDC25C	IPI00216683	hsa:5347	PLK1	IPI00021248	3.430379
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hsa:994	CDC25B	IPI00291990	hsa:1432	MAPK14	IPI00002857	3.430379
hsa:995	CDC25C	IPI00216683	hsa:1432	MAPK14	IPI00002857	3.430379
hsa:994	CDC25B	IPI00291990	hsa:6790	AURKA	IPI00298940	3.430379
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hsa:993	CDC25A	IPI00220981	hsa:1956	EGFR	IPI00018274	3.430379
hsa:995	CDC25C	IPI00216683	hsa:5585	PKN1	IPI00002803	3.430379
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hsa:993	CDC25A	IPI00220981	hsa:4217	MAP3K5	IPI00412433	3.430379
hsa:993	CDC25A	IPI00220981	hsa:11200	CHEK2	IPI00014072	3.430379
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hsa:993	CDC25A	IPI00220981	hsa:9261	MAPKAPK2	IPI00026054	3.430379
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hsa:10188	TNK2	IPI00167089	hsa:5923	RASGRF1	IPI00016784	3.404266
hsa:5728	PTEN	IPI00012587	hsa:5159	PDGFRB	IPI00015902	3.384839
hsa:5770	PTPN1	IPI00297261	hsa:5159	PDGFRB	IPI00015902	3.384839
hsa:214	ALCAM	IPI00015102	hsa:1956	EGFR	IPI00018274	3.37261
hsa:634	CEACAM1	IPI00009938	hsa:1956	EGFR	IPI00018274	3.37261
hsa:3084	NRG1	IPI00296902	hsa:2066	ERBB4	IPI00016371	3.37261
hsa:3084	NRG1	IPI00296902	hsa:2064	ERBB2	IPI00300384	3.37261
hsa:5802	PTPRS	IPI00289831	hsa:1956	EGFR	IPI00018274	3.360153
hsa:6452	SH3BP2	IPI00218997	hsa:7409	VAV1	IPI00011696	3.353399
hsa:6452	SH3BP2	IPI00218997	hsa:7410	VAV2	IPI00446303	3.353399
hsa:5788	PTPRC	IPI00844079	hsa:3643	INSR	IPI00220325	3.335685
hsa:3932	LCK	IPI00394952	hsa:919	CD247	IPI00218634	3.327779
hsa:6850	SYK	IPI00018597	hsa:150372	NFAM1	IPI00168743	3.327779
hsa:6850	SYK	IPI00018597	hsa:7305	TYROBP	IPI00015144	3.327779
hsa:6850	SYK	IPI00018597	hsa:2207	FCER1G	IPI00025804	3.327779
hsa:3718	JAK3	IPI00002773	hsa:919	CD247	IPI00218634	3.327779
hsa:6464	SHC1	IPI00645103	hsa:919	CD247	IPI00218634	3.327779
hsa:4067	LYN	IPI00298625	hsa:2207	FCER1G	IPI00025804	3.327779
hsa:2534	FYN	IPI00219012	hsa:919	CD247	IPI00218634	3.327779
hsa:2885	GRB2	IPI00021327	hsa:919	CD247	IPI00218634	3.327779
hsa:1445	CSK	IPI00013212	hsa:919	CD247	IPI00218634	3.327779

hsa:6776	STAT5A	IPI00030783	hsa:919	CD247	IPI00218634	3.327779
hsa:10019	SH2B3	IPI00010821	hsa:919	CD247	IPI00218634	3.327779
hsa:7535	ZAP70	IPI00329789	hsa:150372	NFAM1	IPI00168743	3.327779
hsa:7535	ZAP70	IPI00329789	hsa:7305	TYROBP	IPI00015144	3.327779
hsa:5336	PLCG2	IPI00329185	hsa:2207	FCER1G	IPI00025804	3.327779
hsa:695	BTK	IPI00029132	hsa:2207	FCER1G	IPI00025804	3.327779
hsa:84174	SLA2	IPI00030447	hsa:919	CD247	IPI00218634	3.327779
hsa:6777	STAT5B	IPI00103415	hsa:919	CD247	IPI00218634	3.327779
hsa:6503	SLA	IPI00009499	hsa:919	CD247	IPI00218634	3.327779
hsa:7535	ZAP70	IPI00329789	hsa:919	CD247	IPI00218634	3.327779
hsa:5595	MAPK3	IPI00018195	hsa:7553	ZNF7	IPI00012527	3.320395
hsa:1457	CSNK2A1	IPI00744507	hsa:4150	MAZ	IPI00869267	3.320395
hsa:2322	FLT3	IPI00748391	hsa:84922	FIZ1	IPI00045801	3.320395
hsa:10114	HIPK3	IPI00099522	hsa:51427	ZNF107	IPI00008208	3.320395
hsa:51776	ZAK	IPI00329638	hsa:163081	ZNF567	IPI00640322	3.320395
hsa:114783	LMTK3	IPI00140833	hsa:7704	ZBTB16	IPI00305613	3.320395
hsa:4215	MAP3K3	IPI00017801	hsa:7704	ZBTB16	IPI00305613	3.320395
hsa:983	CDC2	IPI00073536	hsa:7704	ZBTB16	IPI00305613	3.320395
hsa:4750	NEK1	IPI00044749	hsa:59348	ZNF350	IPI00478374	3.320395
hsa:51776	ZAK	IPI00329638	hsa:163081	ZNF567	IPI00640322	3.320395
hsa:114783	LMTK3	IPI00140833	hsa:7704	ZNF145	IPI00305613	3.320395
hsa:4215	MAP3K3	IPI00017801	hsa:7704	ZNF145	IPI00305613	3.320395
hsa:5335	PLCG1	IPI00016736	hsa:613	BCR	IPI00004497	3.317555
hsa:5879	RAC1	IPI00010271	hsa:5584	PRKCI	IPI00016639	3.310522
hsa:5867	RAB4A	IPI00480056	hsa:5584	PRKCI	IPI00016639	3.310522
hsa:5862	RAB2A	IPI00031169	hsa:5584	PRKCI	IPI00016639	3.310522
hsa:3265	HRAS	IPI00000006	hsa:5584	PRKCI	IPI00016639	3.310522
hsa:23433	RHOQ	IPI00012511	hsa:5584	PRKCI	IPI00016639	3.310522
hsa:998	CDC42	IPI00007189	hsa:5584	PRKCI	IPI00016639	3.310522
hsa:1019	CDK4	IPI00007811	hsa:896	CCND3	IPI00025817	3.307866
hsa:5596	MAPK4	IPI00010156	hsa:896	CCND3	IPI00025817	3.307866
hsa:984	CDC2L1	IPI00215999	hsa:896	CCND3	IPI00025817	3.307866
hsa:1021	CDK6	IPI00023529	hsa:896	CCND3	IPI00025817	3.307866
hsa:5218	PFTK1	IPI00165249	hsa:896	CCND3	IPI00025817	3.307866
hsa:1019	CDK4	IPI00007811	hsa:896	CCND3	IPI00025817	3.307866
hsa:3320	HSP90AA1	IPI00784295	hsa:9891	NUAK1	IPI00028566	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:1111	CHEK1	IPI00023664	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:6714	SRC	IPI00641230	3.307865
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hsa:3320	HSP90AA1	IPI00784295	hsa:29110	TBK1	IPI00293613	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:9020	MAP3K14	IPI00016099	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:4215	MAP3K3	IPI00017801	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:3654	IRAK1	IPI00293652	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:27102	EIF2AK1	IPI00328149	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:8737	RIPK1	IPI00013773	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:3551	IKBKB	IPI00024709	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:1147	CHUK	IPI00005104	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:3791	KDR	IPI00021396	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:5594	MAPK1	IPI00003479	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:5610	EIF2AK2	IPI00019463	3.307865
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hsa:3320	HSP90AA1	IPI00784295	hsa:5894	RAF1	IPI00021786	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:208	AKT2	IPI00012870	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:207	AKT1	IPI00012866	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:5170	PDPK1	IPI00002538	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:2081	ERN1	IPI00015974	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:9451	EIF2AK3	IPI00303053	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:1457	CSNK2A1	IPI00744507	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:1459	CSNK2A2	IPI00020602	3.307865

hsa:7094	TLN1	IPI00298994	hsa:2185	PTK2B	IPI00029702	3.307865
hsa:5894	RAF1	IPI00021786	hsa:8844	KSR1	IPI00217124	3.307865
hsa:5894	RAF1	IPI00021786	hsa:6788	STK3	IPI00411984	3.307865
hsa:5894	RAF1	IPI00021786	hsa:55872	PBK	IPI00306708	3.307865
hsa:5894	RAF1	IPI00021786	hsa:283455	KSR2	IPI00414043	3.307865
hsa:5894	RAF1	IPI00021786	hsa:51765	RP6-213H19.1	IPI00292827	3.307865
hsa:5894	RAF1	IPI00021786	hsa:5562	PRKAA1	IPI00872804	3.307865
hsa:5894	RAF1	IPI00021786	hsa:5598	MAPK7	IPI00376860	3.307865
hsa:5894	RAF1	IPI00021786	hsa:4217	MAP3K5	IPI00412433	3.307865
hsa:369	ARAF	IPI00872240	hsa:55872	PBK	IPI00306708	3.307865
hsa:7153	TOP2A	IPI00414101	hsa:6732	SRPK1	IPI00290439	3.307865
hsa:3326	HSP90AB1	IPI00414676	hsa:4215	MAP3K3	IPI00017801	3.307865
hsa:3326	HSP90AB1	IPI00414676	hsa:9641	IKBKE	IPI00029045	3.307865
hsa:3326	HSP90AB1	IPI00414676	hsa:29110	TBK1	IPI00293613	3.307865
hsa:7094	TLN1	IPI00298994	hsa:1956	EGFR	IPI00018274	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:7535	ZAP70	IPI00329789	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:3932	LCK	IPI00394952	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:11035	RIPK3	IPI00294938	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:8767	RIPK2	IPI00021917	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:4214	MAP3K1	IPI00855985	3.307865
hsa:3326	HSP90AB1	IPI00414676	hsa:4214	MAP3K1	IPI00855985	3.307865
hsa:3320	HSP90AA1	IPI00784295	hsa:1326	MAP3K8	IPI00298726	3.307865
hsa:3326	HSP90AB1	IPI00414676	hsa:1326	MAP3K8	IPI00298726	3.307865
hsa:7184	HSP90B1	IPI00027230	hsa:9451	EIF2AK3	IPI00303053	3.307865
hsa:3326	HSP90AB1	IPI00414676	hsa:1111	CHEK1	IPI00023664	3.307865
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hsa:10131	TRAP1	IPI00030275	hsa:7048	TGFBR2	IPI00020431	3.307865
hsa:673	BRAF	IPI00303797	hsa:5594	MAPK1	IPI00003479	3.307865
hsa:5894	RAF1	IPI00021786	hsa:5594	MAPK1	IPI00003479	3.307865
hsa:7155	TOP2B	IPI00027280	hsa:5595	MAPK3	IPI00018195	3.307865
hsa:5894	RAF1	IPI00021786	hsa:5595	MAPK3	IPI00018195	3.307865
hsa:7094	TLN1	IPI00298994	hsa:5747	PTK2	IPI00012885	3.307865
hsa:7153	TOP2A	IPI00414101	hsa:983	CDC2	IPI00073536	3.307865
hsa:7153	TOP2A	IPI00414101	hsa:5578	PRKCA	IPI00385449	3.307865
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hsa:7153	TOP2A	IPI00414101	hsa:5579	PRKCB1	IPI00010466	3.307865
hsa:5164	PDK2	IPI00797834	hsa:207	AKT1	IPI00012866	3.307865
hsa:3326	HSP90AB1	IPI00414676	hsa:207	AKT1	IPI00012866	3.307865
hsa:7153	TOP2A	IPI00414101	hsa:5582	PRKCG	IPI00007128	3.307865
hsa:3326	HSP90AB1	IPI00414676	hsa:1147	CHUK	IPI00005104	3.307865
hsa:3326	HSP90AB1	IPI00414676	hsa:3551	IKBKB	IPI00024709	3.307865
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hsa:7094	TLN1	IPI00298994	hsa:2064	ERBB2	IPI00300384	3.307865
hsa:3326	HSP90AB1	IPI00414676	hsa:208	AKT2	IPI00012870	3.307865
hsa:5163	PDK1	IPI00014831	hsa:6198	RPS6KB1	IPI00216132	3.307865
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hsa:5798	PTPRN	IPI00004440	hsa:11122	PTPRT	IPI00013096	3.26317
hsa:5788	PTPRC	IPI00844079	hsa:3454	IFNAR1	IPI00012877	3.26317
hsa:5771	PTPN2	IPI00219695	hsa:2690	GHR	IPI00023599	3.26317
hsa:5795	PTPRJ	IPI00847732	hsa:3561	IL2RG	IPI00012899	3.26317
hsa:5787	PTPRB	IPI00295577	hsa:2690	GHR	IPI00023599	3.26317
hsa:5770	PTPN1	IPI00297261	hsa:2690	GHR	IPI00023599	3.26317
hsa:5794	PTPRH	IPI00760988	hsa:2690	GHR	IPI00023599	3.26317
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hsa:6446	SGK	IPI00297590	hsa:4619	MYH1	IPI00025879	3.246609
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hsa:10603	SH2B2	IPI00155706	hsa:140459	ASB6	IPI00016560	3.230539
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hsa:6645	SNTB2	IPI00009505	hsa:8525	DGKZ	IPI00013835	3.230539
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hsa:7074	TIAM1	IPI00011400	hsa:286	ANK1	IPI00216697	3.230539
hsa:6711	SPTBN1	IPI00005614	hsa:287	ANK2	IPI00007834	3.230539
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hsa:54212	SNTG1	IPI00071897	hsa:8525	DGKZ	IPI00013835	3.230539
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hsa:9181	ARHGEF2	IPI00472160	hsa:4794	NFKBIE	IPI00442458	3.230539
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hsa:90	ACVR1	IPI00029219	hsa:55785	FGD6	IPI00419100	3.210306
hsa:983	CDC2	IPI00073536	hsa:1894	ECT2	IPI00787864	3.210306
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hsa:941	CD80	IPI00015914	hsa:1493	CTLA4	IPI00028559	3.206301
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hsa:695	BTK	IPI00029132	hsa:5587	PRKD1	IPI00782950	3.109707
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hsa:5580	PRKCD	IPI00329236	hsa:113	ADCY7	IPI00020920	3.087341
hsa:5578	PRKCA	IPI00385449	hsa:111	ADCY5	IPI00339214	3.087341
hsa:5566	PRKACA730418	IPI00396630	hsa:111	ADCY5	IPI00339214	3.087341
hsa:5894	RAF1	IPI00021786	hsa:112	ADCY6	IPI00011938	3.087341
hsa:818	CAMK2G	IPI00334344	hsa:109	ADCY3	IPI00028513	3.087341
hsa:5590	PRKCZ	IPI00013749	hsa:111	ADCY5	IPI00339214	3.087341
hsa:4294	MAP3K10	IPI00295401	hsa:10256	CNKSR1	IPI00299824	3.060651
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hsa:3643	INSR	IPI00220325	hsa:2886	GRB7	IPI00448767	3.041705
hsa:3643	INSR	IPI00220325	hsa:10603	SH2B2	IPI00155706	3.041705
hsa:3643	INSR	IPI00220325	hsa:25970	SH2B1	IPI00016441	3.041705
hsa:7010	TEK	IPI00412829	hsa:2888	GRB14	IPI00030917	3.041705
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hsa:2047	EPHB1	IPI00008315	hsa:2887	GRB10	IPI00012752	3.041705
hsa:3480	IGF1R	IPI00027232	hsa:2887	GRB10	IPI00012752	3.041705
hsa:2048	EPHB2	IPI00021275	hsa:5921	RASA1	IPI00026262	3.040261
hsa:3643	INSR	IPI00220325	hsa:5335	PLCG1	IPI00016736	3.040261
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hsa:7046	TGFBR1	IPI00005733	hsa:130497	OSR1	IPI00152145	3.03221
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hsa:5594	MAPK1	IPI00003479	hsa:604	BCL6	IPI00012820	3.03221
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hsa:5580	PRKCD	IPI00329236	hsa:688	KLF5	IPI00015934	3.03221
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hsa:90	ACVR1	IPI00029219	hsa:10713	USP39	IPI00419844	3.03221
hsa:983	CDC2	IPI00073536	hsa:10524	HTATIP	IPI00290020	3.03221
hsa:5566	PRKACA730418	IPI00396630	hsa:26993	AKAP8L	IPI00297455	3.03221
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hsa:2932	GSK3B	IPI00028570	hsa:8517	IKBKG	IPI00002411	3.03221
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hsa:1457	CSNK2A1	IPI00744507	hsa:10661	KLF1	IPI00012816	3.03221
hsa:1459	CSNK2A2	IPI00020602	hsa:10661	KLF1	IPI00012816	3.03221
hsa:8767	RIPK2	IPI00021917	hsa:8517	IKBKG	IPI00002411	3.03221
hsa:7010	TEK	IPI00412829	hsa:79155	TNIP2	IPI00168953	3.03221
hsa:9833	MELK	IPI00006471	hsa:90441	ZNF622	IPI00056499	3.03221
hsa:1147	CHUK	IPI00005104	hsa:8517	IKBKG	IPI00002411	3.03221
hsa:3551	IKBKB	IPI00024709	hsa:8517	IKBKG	IPI00002411	3.03221
hsa:5601	MAPK9	IPI00024673	hsa:7597	ZBTB25	IPI00217777	3.03221
hsa:8737	RIPK1	IPI00013773	hsa:8517	IKBKG	IPI00002411	3.03221
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hsa:5588	PRKCQ	IPI00029196	hsa:8517	IKBKG	IPI00002411	3.03221
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hsa:8997	KALRN	IPI00877065	hsa:8328	GFI1B	IPI00003110	3.03221
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hsa:6885	MAP3K7	IPI00295738	hsa:8517	IKBKG	IPI00002411	3.03221
hsa:4215	MAP3K3	IPI00017801	hsa:26993	AKAP8L	IPI00297455	3.03221
hsa:817	CAMK2D	IPI00430291	hsa:8517	IKBKG	IPI00002411	3.03221
hsa:5595	MAPK3	IPI00018195	hsa:6667	SP1	IPI00465152	3.03221

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hsa:984	CDC2L1	IPI00215999	hsa:11143	MYST2	IPI00180764	3.03221
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hsa:6714	SRC	IPI00641230	hsa:8525	DGKZ	IPI00013835	2.97367
hsa:8573	CASK	IPI00514301	hsa:8874	ARHGEF7	IPI00449906	2.962755
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hsa:1017	CDK2	IPI00031681	hsa:894	CCND2	IPI00025810	2.940325
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hsa:913	CD1E	IPI00783516	hsa:567	B2M	IPI00004656	2.932526
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hsa:909	CD1A	IPI00025382	hsa:567	B2M	IPI00004656	2.932526
hsa:910	CD1B	IPI00019849	hsa:567	B2M	IPI00004656	2.932526
hsa:3134	HLA-F	IPI00646822	hsa:567	B2M	IPI00004656	2.932526
hsa:3133	HLA-E	IPI00830076	hsa:567	B2M	IPI00004656	2.932526
hsa:3135	HLA-G	IPI00015988	hsa:567	B2M	IPI00004656	2.932526
hsa:3107	HLA-C3106	IPI00004657	hsa:567	B2M	IPI00004656	2.932526
hsa:3106	HLA-B	unknown	hsa:567	B2M	IPI00004656	2.932526
hsa:3105	HLA-A	IPI00472882	hsa:567	B2M	IPI00004656	2.932526
hsa:4276	MICA	unknown	hsa:567	B2M	IPI00004656	2.932526
hsa:942	CD86	IPI00290621	hsa:940	CD28	IPI00022339	2.931918
hsa:2885	GRB2	IPI00021327	hsa:25759	SHC2	IPI00786975	2.918409
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hsa:1398	CRK	IPI00004838	hsa:6464	SHC1	IPI00645103	2.918409
hsa:9402	GRAP2	IPI00026928	hsa:6464	SHC1	IPI00645103	2.918409
hsa:1399	CRKL	IPI00004839	hsa:6464	SHC1	IPI00645103	2.918409
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hsa:2885	GRB2	IPI00021327	hsa:53358	SHC3	IPI00409679	2.918409
hsa:2549	GAB1	IPI00031068	hsa:6654	SOS1	IPI00020131	2.844572
hsa:5921	RASA1	IPI00026262	hsa:9223	MAGI1	IPI00470759	2.837938
hsa:613	BCR	IPI00004497	hsa:4301	MLLT4	IPI00398718	2.837938
hsa:613	BCR	IPI00004497	hsa:9546	APBA3	IPI00014073	2.837938
hsa:8831	SYNGAP1	IPI00177884	hsa:8777	MPDZ	IPI00552988	2.837938
hsa:5979	RET	IPI00013983	hsa:5335	PLCG1	IPI00016736	2.829073
hsa:4233	MET	IPI00029273	hsa:5335	PLCG1	IPI00016736	2.829073
hsa:1956	EGFR	IPI00018274	hsa:5335	PLCG1	IPI00016736	2.829073
hsa:1956	EGFR	IPI00018274	hsa:5921	RASA1	IPI00026262	2.829073

hsa:238	ALK	IPI00395632	hsa:5335	PLCG1	IPI00016736	2.829073
hsa:2064	ERBB2	IPI00300384	hsa:5336	PLCG2	IPI00329185	2.829073
hsa:2064	ERBB2	IPI00300384	hsa:5921	RASA1	IPI00026262	2.829073
hsa:2066	ERBB4	IPI00016371	hsa:5921	RASA1	IPI00026262	2.829073
hsa:2064	ERBB2	IPI00300384	hsa:5335	PLCG1	IPI00016736	2.829073
hsa:4914	NTRK1	IPI00025076	hsa:5335	PLCG1	IPI00016736	2.829073
hsa:780	DDR1	IPI00001477	hsa:5335	PLCG1	IPI00016736	2.829073
hsa:4486	MST1R	IPI00030273	hsa:5335	PLCG1	IPI00016736	2.829073
hsa:4914	NTRK1	IPI00025076	hsa:5921	RASA1	IPI00026262	2.829073
hsa:9212	AURKB	IPI00176642	hsa:5921	RASA1	IPI00026262	2.829073
hsa:9448	MAP4K4	IPI00006752	hsa:5921	RASA1	IPI00026262	2.829073
hsa:1956	EGFR	IPI00018274	hsa:5336	PLCG2	IPI00329185	2.829073
hsa:6790	AURKA	IPI00298940	hsa:5921	RASA1	IPI00026262	2.829073
hsa:5578	PRKCA	IPI00385449	hsa:1742	DLG4	IPI00619928	2.828647
hsa:2048	EPHB2	IPI00021275	hsa:10044	SH2D3C	IPI00171093	2.816469
hsa:3643	INSR	IPI00220325	hsa:8835	SOCS2	IPI00033944	2.816469
hsa:3643	INSR	IPI00220325	hsa:6777	STAT5B	IPI00103415	2.816469
hsa:3643	INSR	IPI00220325	hsa:9306	SOCS6	IPI00297351	2.816469
hsa:3643	INSR	IPI00220325	hsa:8503	PIK3R3	IPI00513745	2.816469
hsa:3643	INSR	IPI00220325	hsa:8651	SOCS1	IPI00021491	2.816469
hsa:7010	TEK	IPI00412829	hsa:8651	SOCS1	IPI00021491	2.816469
hsa:7010	TEK	IPI00412829	hsa:6777	STAT5B	IPI00103415	2.816469
hsa:3480	IGF1R	IPI00027232	hsa:8503	PIK3R3	IPI00513745	2.816469
hsa:3480	IGF1R	IPI00027232	hsa:8835	SOCS2	IPI00033944	2.816469
hsa:3480	IGF1R	IPI00027232	hsa:6774	STAT3	IPI00784414	2.816469
hsa:7010	TEK	IPI00412829	hsa:6464	SHC1	IPI00645103	2.816469
hsa:1969	EPHA2	IPI00021267	hsa:6464	SHC1	IPI00645103	2.816469
hsa:3643	INSR	IPI00220325	hsa:6464	SHC1	IPI00645103	2.816469
hsa:3480	IGF1R	IPI00027232	hsa:6464	SHC1	IPI00645103	2.816469
hsa:7010	TEK	IPI00412829	hsa:5295	PIK3R1	IPI00021448	2.816469
hsa:3643	INSR	IPI00220325	hsa:5295	PIK3R1	IPI00021448	2.816469
hsa:3480	IGF1R	IPI00027232	hsa:5295	PIK3R1	IPI00021448	2.816469
hsa:3643	INSR	IPI00220325	hsa:6776	STAT5A	IPI00030783	2.816469
hsa:7010	TEK	IPI00412829	hsa:6776	STAT5A	IPI00030783	2.816469
hsa:3643	INSR	IPI00220325	hsa:9021	SOCS3	IPI00297349	2.816469
hsa:3480	IGF1R	IPI00027232	hsa:9021	SOCS3	IPI00297349	2.816469
hsa:3480	IGF1R	IPI00027232	hsa:8651	SOCS1	IPI00021491	2.816469
hsa:5587	PRKD1	IPI00782950	hsa:5335	PLCG1	IPI00016736	2.778171
hsa:5587	PRKD1	IPI00782950	hsa:5336	PLCG2	IPI00329185	2.778171
hsa:207	AKT1	IPI00012866	hsa:673	BRAF	IPI00303797	2.770234
hsa:207	AKT1	IPI00012866	hsa:5894	RAF1	IPI00021786	2.770234
hsa:5747	PTK2	IPI00012885	hsa:5335	PLCG1	IPI00016736	2.768262
hsa:2185	PTK2B	IPI00029702	hsa:5921	RASA1	IPI00026262	2.768262
hsa:29126	CD274	IPI00023021	hsa:5133	PDCD1	IPI00014830	2.748933
hsa:5819	PVRL2	IPI00022661	hsa:10666	CD226	IPI00008578	2.748933
hsa:80380	PDCD1LG2	IPI00414542	hsa:5133	PDCD1	IPI00014830	2.748933
hsa:649	BMP1	IPI00009054	hsa:1294	COL7A1	IPI00025418	2.744902
hsa:3694	ITGB6	IPI00000151	hsa:2335	FN1	IPI00022418	2.744902
hsa:1311	COMP	IPI00028030	hsa:2335	FN1	IPI00022418	2.744902
hsa:4147	MATN2	IPI00168520	hsa:2335	FN1	IPI00022418	2.744902
hsa:4225	MEP1B	IPI00178015	hsa:2335	FN1	IPI00022418	2.744902
hsa:4224	MEP1A	IPI00004372	hsa:2335	FN1	IPI00022418	2.744902
hsa:7057	THBS1	IPI00296099	hsa:2335	FN1	IPI00022418	2.744902
hsa:3371	TNC	IPI00031008	hsa:2335	FN1	IPI00022418	2.744902
hsa:3690	ITGB3	IPI00303283	hsa:2335	FN1	IPI00022418	2.744902
hsa:4052	LTBP1	IPI00220249	hsa:2335	FN1	IPI00022418	2.744902
hsa:3695	ITGB7	IPI00297880	hsa:2335	FN1	IPI00022418	2.744902
hsa:2199	FBLN2	IPI00023824	hsa:2335	FN1	IPI00022418	2.744902
hsa:3688	ITGB1	IPI00217563	hsa:2335	FN1	IPI00022418	2.744902
hsa:7057	THBS1	IPI00296099	hsa:1294	COL7A1	IPI00025418	2.744902

hsa:8506	CNTNAP1	IPI00219249	hsa:5787	PTPRB	IPI00295577	2.744902
hsa:5058	PAK1	IPI00656138	hsa:5580	PRKCD	IPI00329236	2.73809
hsa:5580	PRKCD	IPI00329236	hsa:156	ADRBK1	IPI00012497	2.729197
hsa:5566	PRKACA730418	IPI00396630	hsa:156	ADRBK1	IPI00012497	2.729197
hsa:4153	MBL2	IPI00004373	hsa:10747	MASP2	IPI00294713	2.709711
hsa:4153	MBL2	IPI00004373	hsa:22918	CD93	IPI00299485	2.709711
hsa:2208	FCER2	IPI00027491	hsa:3689	ITGB2	IPI00291792	2.709711
hsa:7123	CLEC3B	IPI00009028	hsa:5327	PLAT	IPI00019590	2.709711
hsa:6436	SFTPA2	unknown	hsa:22918	CD93	IPI00299485	2.709711
hsa:6714	SRC	IPI00641230	hsa:1606	DGKA	IPI00333143	2.708721
hsa:5058	PAK1	IPI00656138	hsa:5335	PLCG1	IPI00016736	2.705097
hsa:3572	IL6ST	IPI00297124	hsa:2065	ERBB3	IPI00298285	2.692116
hsa:2017	CTTN	IPI00029601	hsa:55139	ANKZF1	IPI00335437	2.692116
hsa:2017	CTTN	IPI00029601	hsa:83992	CTTNBP2	IPI00103869	2.692116
hsa:4867	NPHP1	IPI00028739	hsa:27130	INVS	IPI00034309	2.692116
hsa:1739	DLG1	IPI00030351	hsa:27165	GLS2	IPI00296219	2.692116
hsa:1739	DLG1	IPI00030351	hsa:85461	TANC1	IPI00645890	2.692116
hsa:1742	DLG4	IPI00619928	hsa:27165	GLS2	IPI00296219	2.692116
hsa:1742	DLG4	IPI00619928	hsa:23390	ZDHHC17	IPI00216753	2.692116
hsa:1742	DLG4	IPI00619928	hsa:50944	SHANK1	IPI00007695	2.692116
hsa:1742	DLG4	IPI00619928	hsa:85461	TANC1	IPI00645890	2.692116
hsa:7082	TJP1	IPI00216219	hsa:7223	TRPC4	IPI00002689	2.692116
hsa:6709	SPTAN1	IPI00844215	hsa:85461	TANC1	IPI00645890	2.692116
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hsa:11252	PACSIN2	IPI00027009	hsa:59341	TRPV4	IPI00168624	2.692116
hsa:1399	CRKL	IPI00004839	hsa:57498	KIDINS220	IPI00384909	2.692116
hsa:1741	DLG3	IPI00023343	hsa:27165	GLS2	IPI00296219	2.692116
hsa:1740	DLG2	IPI00444727	hsa:27165	GLS2	IPI00296219	2.692116
hsa:10458	BAIAP2	IPI00299088	hsa:50944	SHANK1	IPI00007695	2.692116
hsa:23048	FNBP1	IPI00807625	hsa:8658	TNKS	IPI00021493	2.692116
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hsa:29763	PACSIN3	IPI00329572	hsa:59341	TRPV4	IPI00168624	2.692116
hsa:1969	EPHA2	IPI00021267	hsa:5747	PTK2	IPI00012885	2.692115
hsa:6093	ROCK1	IPI00022542	hsa:3985	LIMK2	IPI00022872	2.677971
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hsa:4804	NGFR	IPI00027436	hsa:4914	NTRK1	IPI00025076	2.676974
hsa:4804	NGFR	IPI00027436	hsa:5567	PRKACB	IPI00395654	2.676974
hsa:4804	NGFR	IPI00027436	hsa:5594	MAPK1	IPI00003479	2.676974
hsa:4804	NGFR	IPI00027436	hsa:5595	MAPK3	IPI00018195	2.676974
hsa:8476	CDC42BPA	IPI00640468	hsa:3984	LIMK1	IPI00291702	2.668952
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hsa:5792	PTPRF	IPI00107831	hsa:3643	INSR	IPI00220325	2.658319
hsa:2048	EPHB2	IPI00021275	hsa:7410	VAV2	IPI00446303	2.649347
hsa:3643	INSR	IPI00220325	hsa:7409	VAV1	IPI00011696	2.649347
hsa:3480	IGF1R	IPI00027232	hsa:23365	ARHGEF12	IPI00339353	2.645573
hsa:3454	IFNAR1	IPI00012877	hsa:7535	ZAP70	IPI00329789	2.640565
hsa:3454	IFNAR1	IPI00012877	hsa:3932	LCK	IPI00394952	2.640565
hsa:3454	IFNAR1	IPI00012877	hsa:7297	TYK2	IPI00022353	2.640565
hsa:3572	IL6ST	IPI00297124	hsa:7297	TYK2	IPI00022353	2.640565
hsa:2690	GHR	IPI00023599	hsa:7297	TYK2	IPI00022353	2.640565
hsa:5618	PRLR	IPI00028640	hsa:7535	ZAP70	IPI00329789	2.640565
hsa:5618	PRLR	IPI00028640	hsa:7006	TEC	IPI00000878	2.640565
hsa:1439	CSF2RB	IPI00465234	hsa:3055	HCK	IPI00646510	2.640565
hsa:1441	CSF3R	IPI00012936	hsa:3055	HCK	IPI00646510	2.640565
hsa:3572	IL6ST	IPI00297124	hsa:3055	HCK	IPI00646510	2.640565
hsa:3561	IL2RG	IPI00012899	hsa:3716	JAK1	IPI00443765	2.640565
hsa:3575	IL7R	IPI00292014	hsa:3716	JAK1	IPI00443765	2.640565
hsa:50615	IL21R	IPI00034249	hsa:3716	JAK1	IPI00443765	2.640565
hsa:1439	CSF2RB	IPI00465234	hsa:3716	JAK1	IPI00443765	2.640565

hsa:1441	CSF3R	IPI00012936	hsa:3716	JAK1	IPI00443765	2.640565
hsa:9180	OSMR	IPI00022674	hsa:3716	JAK1	IPI00443765	2.640565
hsa:2690	GHR	IPI00023599	hsa:3716	JAK1	IPI00443765	2.640565
hsa:3572	IL6ST	IPI00297124	hsa:3716	JAK1	IPI00443765	2.640565
hsa:3566	IL4R	IPI00444383	hsa:3716	JAK1	IPI00443765	2.640565
hsa:3566	IL4R	IPI00444383	hsa:3717	JAK2	IPI00031016	2.640565
hsa:4352	MPL	IPI00027637	hsa:3717	JAK2	IPI00031016	2.640565
hsa:64109	CRLF264109	IPI00030172	hsa:3717	JAK2	IPI00031016	2.640565
hsa:149233	IL23R	IPI00303045	hsa:3717	JAK2	IPI00031016	2.640565
hsa:9180	OSMR	IPI00022674	hsa:3717	JAK2	IPI00031016	2.640565
hsa:3595	IL12RB2	IPI00438855	hsa:3717	JAK2	IPI00031016	2.640565
hsa:3953	LEPR	IPI00009243	hsa:3717	JAK2	IPI00031016	2.640565
hsa:2690	GHR	IPI00023599	hsa:3717	JAK2	IPI00031016	2.640565
hsa:5618	PRLR	IPI00028640	hsa:3717	JAK2	IPI00031016	2.640565
hsa:3460	IFNGR2	IPI00221193	hsa:3717	JAK2	IPI00031016	2.640565
hsa:1439	CSF2RB	IPI00465234	hsa:3717	JAK2	IPI00031016	2.640565
hsa:1441	CSF3R	IPI00012936	hsa:3717	JAK2	IPI00031016	2.640565
hsa:2057	EPOR	IPI00017476	hsa:3717	JAK2	IPI00031016	2.640565
hsa:1439	CSF2RB	IPI00465234	hsa:3932	LCK	IPI00394952	2.640565
hsa:1441	CSF3R	IPI00012936	hsa:3932	LCK	IPI00394952	2.640565
hsa:1439	CSF2RB	IPI00465234	hsa:2242	FES	IPI00294344	2.640565
hsa:3566	IL4R	IPI00444383	hsa:2242	FES	IPI00294344	2.640565
hsa:1439	CSF2RB	IPI00465234	hsa:6850	SYK	IPI00018597	2.640565
hsa:1441	CSF3R	IPI00012936	hsa:6850	SYK	IPI00018597	2.640565
hsa:2057	EPOR	IPI00017476	hsa:6850	SYK	IPI00018597	2.640565
hsa:3561	IL2RG	IPI00012899	hsa:3718	JAK3	IPI00002773	2.640565
hsa:3575	IL7R	IPI00292014	hsa:3718	JAK3	IPI00002773	2.640565
hsa:3566	IL4R	IPI00444383	hsa:3718	JAK3	IPI00002773	2.640565
hsa:1438	CSF2RA1438	IPI00012009	hsa:4067	LYN	IPI00298625	2.640565
hsa:1439	CSF2RB	IPI00465234	hsa:4067	LYN	IPI00298625	2.640565
hsa:1441	CSF3R	IPI00012936	hsa:4067	LYN	IPI00298625	2.640565
hsa:3575	IL7R	IPI00292014	hsa:4067	LYN	IPI00298625	2.640565
hsa:2057	EPOR	IPI00017476	hsa:4067	LYN	IPI00298625	2.640565
hsa:1439	CSF2RB	IPI00465234	hsa:2534	FYN	IPI00219012	2.640565
hsa:3575	IL7R	IPI00292014	hsa:2534	FYN	IPI00219012	2.640565
hsa:3597	IL13RA1	IPI00020354	hsa:7297	TYK2	IPI00022353	2.640565
hsa:54961	SSH3	IPI00218486	hsa:3984	LIMK1	IPI00291702	2.640252
hsa:5728	PTEN	IPI00012587	hsa:22983	MAST1	IPI00027883	2.640252
hsa:5728	PTEN	IPI00012587	hsa:23139	MAST2	IPI00514071	2.640252
hsa:5728	PTEN	IPI00012587	hsa:23031	MAST3	IPI00028932	2.640252
hsa:10256	CNKSRR1	IPI00299824	hsa:5900	RALGDS	IPI00290395	2.632291
hsa:11113	CIT	IPI00022465	hsa:1742	DLG4	IPI00619928	2.622999
hsa:5979	RET	IPI00013983	hsa:2887	GRB10	IPI00012752	2.619811
hsa:5979	RET	IPI00013983	hsa:2886	GRB7	IPI00448767	2.619811
hsa:5594	MAPK1	IPI00003479	hsa:2887	GRB10	IPI00012752	2.619811
hsa:1956	EGFR	IPI00018274	hsa:2888	GRB14	IPI00030917	2.619811
hsa:1956	EGFR	IPI00018274	hsa:2887	GRB10	IPI00012752	2.619811
hsa:1956	EGFR	IPI00018274	hsa:2886	GRB7	IPI00448767	2.619811
hsa:5604	MAP2K1	IPI00219604	hsa:2887	GRB10	IPI00012752	2.619811
hsa:2064	ERBB2	IPI00300384	hsa:2886	GRB7	IPI00448767	2.619811
hsa:4914	NTRK1	IPI00025076	hsa:10603	SH2B2	IPI00155706	2.619811
hsa:4914	NTRK1	IPI00025076	hsa:25970	SH2B1	IPI00016441	2.619811
hsa:11184	MAP4K1	IPI00020258	hsa:27071	DAPP1	IPI00384620	2.619811
hsa:2064	ERBB2	IPI00300384	hsa:10019	SH2B3	IPI00010821	2.619811
hsa:2064	ERBB2	IPI00300384	hsa:10603	SH2B2	IPI00155706	2.619811
hsa:2064	ERBB2	IPI00300384	hsa:6452	SH3BP2	IPI00218997	2.619811
hsa:1147	CHUK	IPI00005104	hsa:55620	STAP2	IPI00383883	2.619811
hsa:3551	IKBKB	IPI00024709	hsa:55620	STAP2	IPI00383883	2.619811
hsa:9020	MAP3K14	IPI00016099	hsa:2886	GRB7	IPI00448767	2.619811
hsa:9020	MAP3K14	IPI00016099	hsa:2887	GRB10	IPI00012752	2.619811

hsa:9020	MAP3K14	IPI00016099	hsa:2888	GRB14	IPI00030917	2.619811
hsa:1956	EGFR	IPI00018274	hsa:10019	SH2B3	IPI00010821	2.619811
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hsa:5292	PIM1	IPI00005014	hsa:660	BMX	IPI00020899	2.619811
hsa:558	AXL	IPI00397361	hsa:5335	PLCG1	IPI00016736	2.619201
hsa:7046	TGFBR1	IPI00005733	hsa:54212	SNTG1	IPI00071897	2.616758
hsa:5894	RAF1	IPI00021786	hsa:10256	CNKSR1	IPI00299824	2.616758
hsa:2066	ERBB4	IPI00016371	hsa:6645	SNTB2	IPI00009505	2.616758
hsa:6300	MAPK12	IPI00296283	hsa:6641	SNTB1	IPI00026059	2.616758
hsa:6789	STK4	IPI00011488	hsa:10256	CNKSR1	IPI00299824	2.616758
hsa:1017	CDK2	IPI00031681	hsa:22866	CNKSR2	IPI00435208	2.616758
hsa:23043	TNIK	IPI00145805	hsa:22866	CNKSR2	IPI00435208	2.616758
hsa:2185	PTK2B	IPI00029702	hsa:57584	ARHGAP21	IPI00867539	2.616758
hsa:6300	MAPK12	IPI00296283	hsa:6640	SNTA1	IPI00164528	2.616758
hsa:5609	MAP2K7	IPI00023636	hsa:10256	CNKSR1	IPI00299824	2.616758
hsa:6788	STK3	IPI00411984	hsa:10256	CNKSR1	IPI00299824	2.616758
hsa:5605	MAP2K2	IPI00003783	hsa:10256	CNKSR1	IPI00299824	2.616758
hsa:3932	LCK	IPI00394952	hsa:6452	SH3BP2	IPI00218997	2.608884
hsa:3932	LCK	IPI00394952	hsa:27071	DAPP1	IPI00384620	2.608884
hsa:3932	LCK	IPI00394952	hsa:10019	SH2B3	IPI00010821	2.608884
hsa:6714	SRC	IPI00641230	hsa:27071	DAPP1	IPI00384620	2.608884
hsa:6714	SRC	IPI00641230	hsa:55620	STAP2	IPI00383883	2.608884
hsa:6714	SRC	IPI00641230	hsa:2887	GRB10	IPI00012752	2.608884
hsa:25	ABL129892	IPI00216969	hsa:6452	SH3BP2	IPI00218997	2.608884
hsa:4067	LYN	IPI00298625	hsa:27071	DAPP1	IPI00384620	2.608884
hsa:4067	LYN	IPI00298625	hsa:10603	SH2B2	IPI00155706	2.608884
hsa:2534	FYN	IPI00219012	hsa:6452	SH3BP2	IPI00218997	2.608884
hsa:2534	FYN	IPI00219012	hsa:10603	SH2B2	IPI00155706	2.608884
hsa:2534	FYN	IPI00219012	hsa:2887	GRB10	IPI00012752	2.608884
hsa:5753	PTK6	IPI00015927	hsa:55620	STAP2	IPI00383883	2.608884
hsa:2885	GRB2	IPI00021327	hsa:10603	SH2B2	IPI00155706	2.597957
hsa:2885	GRB2	IPI00021327	hsa:6452	SH3BP2	IPI00218997	2.597957
hsa:2885	GRB2	IPI00021327	hsa:2886	GRB7	IPI00448767	2.597957
hsa:2885	GRB2	IPI00021327	hsa:25970	SH2B1	IPI00016441	2.597957
hsa:2885	GRB2	IPI00021327	hsa:10019	SH2B3	IPI00010821	2.597957
hsa:10451	VAV3	IPI00299763	hsa:6452	SH3BP2	IPI00218997	2.597957
hsa:27240	SIT1	IPI00004407	hsa:7535	ZAP70	IPI00329789	2.583534
hsa:11184	MAP4K1	IPI00020258	hsa:6850	SYK	IPI00018597	2.583534
hsa:1956	EGFR	IPI00018274	hsa:5604	MAP2K1	IPI00219604	2.57891
hsa:10188	TNK2	IPI00167089	hsa:4168	MCF2	IPI00339309	2.575325
hsa:3570	IL6R	IPI00031171	hsa:6774	STAT3	IPI00784414	2.573295
hsa:5747	PTK2	IPI00012885	hsa:2886	GRB7	IPI00448767	2.565707
hsa:2185	PTK2B	IPI00029702	hsa:26228	STAP1	IPI00015876	2.565707
hsa:5747	PTK2	IPI00012885	hsa:660	BMX	IPI00020899	2.565707
hsa:4224	MEP1A	IPI00004372	hsa:5340	PLG	IPI00019580	2.565577
hsa:6850	SYK	IPI00018597	hsa:5587	PRKD1	IPI00782950	2.56501
hsa:6464	SHC1	IPI00645103	hsa:5578	PRKCA	IPI00385449	2.56387
hsa:1154	CISH	IPI00017281	hsa:5578	PRKCA	IPI00385449	2.56387
hsa:1154	CISH	IPI00017281	hsa:5579	PRKCB1	IPI00010466	2.56387
hsa:5979	RET	IPI00013983	hsa:9260	PDLIM7	IPI00023122	2.562342
hsa:659	BMPR2	IPI00783156	hsa:3984	LIMK1	IPI00291702	2.562342
hsa:57144	PAK7	IPI00001814	hsa:9260	PDLIM7	IPI00023122	2.562342
hsa:140901	STK35	IPI00291457	hsa:9124	PDLIM1	IPI00010414	2.562342
hsa:9261	MAPKAPK2	IPI00026054	hsa:3984	LIMK1	IPI00291702	2.562342
hsa:1432	MAPK14	IPI00002857	hsa:3984	LIMK1	IPI00291702	2.562342
hsa:57144	PAK7	IPI00001814	hsa:9260	PDLIM7	IPI00023122	2.562342
hsa:7075	TIE1	IPI00019530	hsa:5295	PIK3R1	IPI00021448	2.535018
hsa:7046	TGFBR1	IPI00005733	hsa:9459	ARHGFEF6	IPI00014256	2.524005
hsa:7048	TGFBR2	IPI00020431	hsa:8874	ARHGFEF7	IPI00449906	2.524005
hsa:7048	TGFBR2	IPI00020431	hsa:9459	ARHGFEF6	IPI00014256	2.524005

hsa:658	BMPR1B	IPI00010862	hsa:9459	ARHGEF6	IPI00014256	2.524005
hsa:2048	EPHB2	IPI00021275	hsa:9459	ARHGEF6	IPI00014256	2.524005
hsa:2043	EPHA4	IPI00008318	hsa:25791	NGEF	IPI00166928	2.524005
hsa:1432	MAPK14	IPI00002857	hsa:8202	NCOA3	IPI00220079	2.520278
hsa:1019	CDK4	IPI00007811	hsa:10499	NCOA2	IPI00018251	2.520278
hsa:5594	MAPK1	IPI00003479	hsa:8648	NCOA1	IPI00470490	2.520278
hsa:5594	MAPK1	IPI00003479	hsa:8202	NCOA3	IPI00220079	2.520278
hsa:5595	MAPK3	IPI00018195	hsa:3091	HIF1A	IPI00003442	2.520278
hsa:1457	CSNK2A1	IPI00744507	hsa:3091	HIF1A	IPI00003442	2.520278
hsa:1453	CSNK1D	IPI00011102	hsa:8863	PER3	IPI00010692	2.520278
hsa:1453	CSNK1D	IPI00011102	hsa:5187	PER1	IPI00440484	2.520278
hsa:1454	CSNK1E	IPI00027729	hsa:8863	PER3	IPI00010692	2.520278
hsa:1454	CSNK1E	IPI00027729	hsa:5187	PER1	IPI00440484	2.520278
hsa:2932	GSK3B	IPI00028570	hsa:8202	NCOA3	IPI00220079	2.520278
hsa:1457	CSNK2A1	IPI00744507	hsa:405	ARNT	IPI00514749	2.520278
hsa:3551	IKBKB	IPI00024709	hsa:8202	NCOA3	IPI00220079	2.520278
hsa:1147	CHUK	IPI00005104	hsa:8202	NCOA3	IPI00220079	2.520278
hsa:1454	CSNK1E	IPI00027729	hsa:406	ARNTL	IPI00412162	2.520278
hsa:8576	STK16	IPI00872027	hsa:23178	PASK	IPI00398824	2.520278
hsa:5777	PTPN6	IPI00218604	hsa:5580	PRKCD	IPI00329236	2.502374
hsa:2043	EPHA4	IPI00008318	hsa:2534	FYN	IPI00219012	2.501292
hsa:3932	LCK	IPI00394952	hsa:6464	SHC1	IPI00645103	2.49471
hsa:6714	SRC	IPI00641230	hsa:6464	SHC1	IPI00645103	2.49471
hsa:4067	LYN	IPI00298625	hsa:6464	SHC1	IPI00645103	2.49471
hsa:1445	CSK	IPI00013212	hsa:6464	SHC1	IPI00645103	2.49471
hsa:2534	FYN	IPI00219012	hsa:6464	SHC1	IPI00645103	2.49471
hsa:5364	PLXNB1	IPI00455329	hsa:9826	ARHGEF11	IPI00157442	2.493749
hsa:5361	PLXNA1	IPI00552671	hsa:207	AKT1	IPI00012866	2.493749
hsa:23654	PLXNB2	IPI00853369	hsa:23365	ARHGEF12	IPI00339353	2.493749
hsa:5364	PLXNB1	IPI00455329	hsa:23365	ARHGEF12	IPI00339353	2.493749
hsa:23654	PLXNB2	IPI00853369	hsa:9826	ARHGEF11	IPI00157442	2.493749
hsa:3055	HCK	IPI00646510	hsa:23607	CD2AP	IPI00412771	2.484057
hsa:3055	HCK	IPI00646510	hsa:30011	SH3KBP1	IPI00294962	2.484057
hsa:3716	JAK1	IPI00443765	hsa:8027	STAM	IPI00020178	2.484057
hsa:3716	JAK1	IPI00443765	hsa:10254	STAM2	IPI00290542	2.484057
hsa:3717	JAK2	IPI00031016	hsa:10254	STAM2	IPI00290542	2.484057
hsa:3717	JAK2	IPI00031016	hsa:8027	STAM	IPI00020178	2.484057
hsa:3932	LCK	IPI00394952	hsa:4739	NEDD9	IPI00031407	2.484057
hsa:2241	FER	IPI00029263	hsa:2017	CTTN	IPI00029601	2.484057
hsa:6714	SRC	IPI00641230	hsa:2533	FYB	IPI00446986	2.484057
hsa:6714	SRC	IPI00641230	hsa:9644	SH3PXD2A	IPI00640092	2.484057
hsa:6714	SRC	IPI00641230	hsa:23607	CD2AP	IPI00412771	2.484057
hsa:6714	SRC	IPI00641230	hsa:2017	CTTN	IPI00029601	2.484057
hsa:6850	SYK	IPI00018597	hsa:28988	DBNL	IPI00456925	2.484057
hsa:6850	SYK	IPI00018597	hsa:3059	HCLS1	IPI00026156	2.484057
hsa:6850	SYK	IPI00018597	hsa:2017	CTTN	IPI00029601	2.484057
hsa:3718	JAK3	IPI00002773	hsa:10254	STAM2	IPI00290542	2.484057
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hsa:25	ABL129892	IPI00216969	hsa:10006	ABI1	IPI00431025	2.484057
hsa:25	ABL129892	IPI00216969	hsa:8470	SORBS2	IPI00477876	2.484057
hsa:25	ABL129892	IPI00216969	hsa:4739	NEDD9	IPI00031407	2.484057
hsa:25	ABL129892	IPI00216969	hsa:10152	ABI2	IPI00442210	2.484057
hsa:25	ABL129892	IPI00216969	hsa:10580	SORBS1	IPI00186452	2.484057
hsa:25	ABL129892	IPI00216969	hsa:274	BIN1	IPI00186966	2.484057
hsa:4067	LYN	IPI00298625	hsa:4739	NEDD9	IPI00031407	2.484057
hsa:2534	FYN	IPI00219012	hsa:4739	NEDD9	IPI00031407	2.484057
hsa:2534	FYN	IPI00219012	hsa:23607	CD2AP	IPI00412771	2.484057
hsa:2534	FYN	IPI00219012	hsa:2533	FYB	IPI00446986	2.484057
hsa:7297	TYK2	IPI00022353	hsa:10254	STAM2	IPI00290542	2.484057
hsa:27	ABL2	IPI00329488	hsa:8470	SORBS2	IPI00477876	2.484057

hsa:7535	ZAP70	IPI00329789	hsa:28988	DBNL	IPI00456925	2.484057
hsa:4067	LYN	IPI00298625	hsa:3059	HCLS1	IPI00026156	2.484057
hsa:2268	FGR	IPI00016871	hsa:3059	HCLS1	IPI00026156	2.484057
hsa:7525	YES1	IPI00013981	hsa:23607	CD2AP	IPI00412771	2.484057
hsa:7074	TIAM1	IPI00011400	hsa:3265	HRAS	IPI00000006	2.475408
hsa:7074	TIAM1	IPI00011400	hsa:5879	RAC1	IPI00010271	2.475408
hsa:5802	PTPRS	IPI00289831	hsa:11021	RAB35	IPI00300096	2.475139
hsa:3556	IL1RAP	IPI00031789	hsa:5879	RAC1	IPI00010271	2.475139
hsa:5678	PSG9	IPI00293461	hsa:1915	EEF1A1	IPI00396485	2.475139
hsa:5678	PSG9	IPI00293461	hsa:1915	EEF1A1	IPI00396485	2.475139
hsa:7082	TJP1	IPI00216219	hsa:5339	PLEC1	IPI00014898	2.467773
hsa:2885	GRB2	IPI00021327	hsa:5339	PLEC1	IPI00014898	2.467773
hsa:4703	NEB	IPI00303335	hsa:81	ACTN4	IPI00013808	2.467773
hsa:10529	NEBL	IPI00844035	hsa:87	ACTN1	IPI00013508	2.467773
hsa:54869	EPS8L1	IPI00301250	hsa:88	ACTN2	IPI00019884	2.467773
hsa:1742	DLG4	IPI00619928	hsa:88	ACTN2	IPI00019884	2.467773
hsa:1739	DLG1	IPI00030351	hsa:88	ACTN2	IPI00019884	2.467773
hsa:7082	TJP1	IPI00216219	hsa:81	ACTN4	IPI00013808	2.467773
hsa:7046	TGFBR1	IPI00005733	hsa:8935	SKAP2	IPI00022508	2.464272
hsa:5747	PTK2	IPI00012885	hsa:23092	ARHGAP26	IPI00007913	2.464272
hsa:3643	INSR	IPI00220325	hsa:23092	ARHGAP26	IPI00007913	2.464272
hsa:29941	PKN3	IPI00413780	hsa:23092	ARHGAP26	IPI00007913	2.464272
hsa:29941	PKN3	IPI00413780	hsa:79658	ARHGAP10	IPI00290332	2.464272
hsa:5058	PAK1	IPI00656138	hsa:8874	ARHGEF7	IPI00449906	2.460392
hsa:5058	PAK1	IPI00656138	hsa:9459	ARHGEF6	IPI00014256	2.460392
hsa:5062	PAK2	IPI00787208	hsa:8874	ARHGEF7	IPI00449906	2.460392
hsa:5063	PAK3	IPI00410084	hsa:8874	ARHGEF7	IPI00449906	2.460392
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hsa:25865	PRKD2	IPI00009334	hsa:9260	PDLIM7	IPI00023122	2.44856
hsa:5578	PRKCA	IPI00385449	hsa:846	CASR	IPI00012817	2.432069
hsa:5579	PRKCB1	IPI00010466	hsa:846	CASR	IPI00012817	2.432069
hsa:5582	PRKCG	IPI00007128	hsa:846	CASR	IPI00012817	2.432069
hsa:2264	FGFR4	IPI00304578	hsa:5335	PLCG1	IPI00016736	2.431625
hsa:3791	KDR	IPI00021396	hsa:5336	PLCG2	IPI00329185	2.431625
hsa:3791	KDR	IPI00021396	hsa:5335	PLCG1	IPI00016736	2.431625
hsa:2321	FLT1	IPI00018335	hsa:5335	PLCG1	IPI00016736	2.431625
hsa:3815	KIT	IPI00022296	hsa:5335	PLCG1	IPI00016736	2.431625
hsa:2263	FGFR2	IPI00010680	hsa:5335	PLCG1	IPI00016736	2.431625
hsa:5156	PDGFRA	IPI00027721	hsa:5335	PLCG1	IPI00016736	2.431625
hsa:5159	PDGFRB	IPI00015902	hsa:5335	PLCG1	IPI00016736	2.431625
hsa:2260	FGFR1	IPI00005142	hsa:5335	PLCG1	IPI00016736	2.431625
hsa:3815	KIT	IPI00022296	hsa:5921	RASA1	IPI00026262	2.431625
hsa:3791	KDR	IPI00021396	hsa:5921	RASA1	IPI00026262	2.431625
hsa:5159	PDGFRB	IPI00015902	hsa:5921	RASA1	IPI00026262	2.431625
hsa:1436	CSF1R	IPI00011218	hsa:5921	RASA1	IPI00026262	2.431625
hsa:2321	FLT1	IPI00018335	hsa:5336	PLCG2	IPI00329185	2.431625
hsa:51285	RASL12	IPI00009813	hsa:7046	TGFBR1	IPI00005733	2.430268
hsa:51285	RASL12	IPI00009813	hsa:90	ACVR1	IPI00029219	2.430268
hsa:51285	RASL12	IPI00009813	hsa:658	BMP1B	IPI00010862	2.430268
hsa:394	ARHGAP5	IPI00013988	hsa:2185	PTK2B	IPI00029702	2.430268
hsa:4735	2-Sep	IPI00014177	hsa:9641	IKBKE	IPI00029045	2.430268
hsa:11184	MAP4K1	IPI00020258	hsa:4296	MAP3K11	IPI00000977	2.427995
hsa:5593	PRKG2	IPI00012322	hsa:3927	LASP1	IPI00000861	2.427995
hsa:5592	PRKG1	IPI00436355	hsa:3927	LASP1	IPI00000861	2.427995
hsa:1022	CDK7	IPI00000685	hsa:3927	LASP1	IPI00000861	2.427995
hsa:5871	MAP4K2	IPI00149094	hsa:4296	MAP3K11	IPI00000977	2.427995
hsa:2048	EPHB2	IPI00021275	hsa:4690	NCK1	IPI00028065	2.424963
hsa:1969	EPHA2	IPI00021267	hsa:5296	PIK3R2	IPI00011736	2.424963
hsa:1969	EPHA2	IPI00021267	hsa:6503	SLA	IPI00009499	2.424963
hsa:3643	INSR	IPI00220325	hsa:10451	VAV3	IPI00299763	2.424963

hsa:2047	EPHB1	IPI00008315	hsa:4690	NCK1	IPI00028065	2.424963
hsa:2051	EPHB6	IPI00005222	hsa:2885	GRB2	IPI00021327	2.424963
hsa:2048	EPHB2	IPI00021275	hsa:2885	GRB2	IPI00021327	2.424963
hsa:2047	EPHB1	IPI00008315	hsa:2885	GRB2	IPI00021327	2.424963
hsa:7010	TEK	IPI00412829	hsa:2885	GRB2	IPI00021327	2.424963
hsa:1969	EPHA2	IPI00021267	hsa:2885	GRB2	IPI00021327	2.424963
hsa:2051	EPHB6	IPI00005222	hsa:1398	CRK	IPI00004838	2.424963
hsa:2049	EPHB3	IPI00289329	hsa:1398	CRK	IPI00004838	2.424963
hsa:2042	EPHA3	IPI00298105	hsa:1398	CRK	IPI00004838	2.424963
hsa:3643	INSR	IPI00220325	hsa:1398	CRK	IPI00004838	2.424963
hsa:3480	IGF1R	IPI00027232	hsa:1398	CRK	IPI00004838	2.424963
hsa:2051	EPHB6	IPI00005222	hsa:1399	CRKL	IPI00004839	2.424963
hsa:3643	INSR	IPI00220325	hsa:1399	CRKL	IPI00004839	2.424963
hsa:3480	IGF1R	IPI00027232	hsa:1399	CRKL	IPI00004839	2.424963
hsa:3480	IGF1R	IPI00027232	hsa:5296	PIK3R2	IPI00011736	2.424963
hsa:6098	ROS1	IPI00288965	hsa:10451	VAV3	IPI00299763	2.424963
hsa:3480	IGF1R	IPI00027232	hsa:10451	VAV3	IPI00299763	2.424963
hsa:3689	ITGB2	IPI00291792	hsa:5657	PRTN3	IPI00027409	2.421444
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hsa:7039	TGFA	IPI00872280	hsa:1991	ELA2	IPI00027769	2.421444
hsa:8874	ARHGEF7	IPI00449906	hsa:9459	ARHGEF6	IPI00014256	2.418417
hsa:5062	PAK2	IPI00787208	hsa:79658	ARHGAP10	IPI00290332	2.41183
hsa:5566	PRKACA730418	IPI00396630	hsa:6711	SPTBN1	IPI00005614	2.410016
hsa:1457	CSNK2A1	IPI00744507	hsa:6711	SPTBN1	IPI00005614	2.410016
hsa:11035	RIPK3	IPI00294938	hsa:6711	SPTBN1	IPI00005614	2.410016
hsa:4215	MAP3K3	IPI00017801	hsa:6711	SPTBN1	IPI00005614	2.410016
hsa:9641	IKBKE	IPI00029045	hsa:6711	SPTBN1	IPI00005614	2.410016
hsa:11035	RIPK3	IPI00294938	hsa:23164	M-RIP	IPI00305344	2.410016
hsa:23043	TNIK	IPI00145805	hsa:6711	SPTBN1	IPI00005614	2.410016
hsa:4215	MAP3K3	IPI00017801	hsa:23164	M-RIP	IPI00305344	2.410016
hsa:50488	MINK1	IPI00166680	hsa:6712	SPTBN2	IPI00012645	2.410016
hsa:1326	MAP3K8	IPI00298726	hsa:6711	SPTBN1	IPI00005614	2.410016
hsa:5584	PRKCI	IPI00016639	hsa:5604	MAP2K1	IPI00219604	2.393528
hsa:2185	PTK2B	IPI00029702	hsa:7409	VAV1	IPI00011696	2.377348
hsa:4233	MET	IPI00029273	hsa:7409	VAV1	IPI00011696	2.373007
hsa:5594	MAPK1	IPI00003479	hsa:7409	VAV1	IPI00011696	2.373007
hsa:1956	EGFR	IPI00018274	hsa:7410	VAV2	IPI00446303	2.373007
hsa:1956	EGFR	IPI00018274	hsa:7409	VAV1	IPI00011696	2.373007
hsa:2064	ERBB2	IPI00300384	hsa:7410	VAV2	IPI00446303	2.373007
hsa:2064	ERBB2	IPI00300384	hsa:7409	VAV1	IPI00011696	2.373007
hsa:4752	NEK3	IPI00465101	hsa:7409	VAV1	IPI00011696	2.373007
hsa:4752	NEK3	IPI00465101	hsa:7410	VAV2	IPI00446303	2.373007
hsa:558	AXL	IPI00397361	hsa:8651	SOCS1	IPI00021491	2.372382
hsa:558	AXL	IPI00397361	hsa:8503	PIK3R3	IPI00513745	2.372382
hsa:558	AXL	IPI00397361	hsa:23371	TENC1	IPI00465295	2.372382
hsa:558	AXL	IPI00397361	hsa:6464	SHC1	IPI00645103	2.372382
hsa:558	AXL	IPI00397361	hsa:53358	SHC3	IPI00409679	2.372382
hsa:558	AXL	IPI00397361	hsa:5295	PIK3R1	IPI00021448	2.372382
hsa:7301	TYRO3	IPI00030887	hsa:5295	PIK3R1	IPI00021448	2.372382
hsa:6850	SYK	IPI00018597	hsa:5578	PRKCA	IPI00385449	2.35971
hsa:7297	TYK2	IPI00022353	hsa:5578	PRKCA	IPI00385449	2.35971
hsa:3716	JAK1	IPI00443765	hsa:5578	PRKCA	IPI00385449	2.35971
hsa:10461	MERTK	IPI00029756	hsa:7409	VAV1	IPI00011696	2.345561
hsa:5581	PRKCE	IPI00024539	hsa:5894	RAF1	IPI00021786	2.339686
hsa:5578	PRKCA	IPI00385449	hsa:5894	RAF1	IPI00021786	2.339686
hsa:5578	PRKCA	IPI00385449	hsa:673	BRAF	IPI00303797	2.339686
hsa:5581	PRKCE	IPI00024539	hsa:673	BRAF	IPI00303797	2.339686
hsa:10298	PAK4	IPI00014068	hsa:2263	FGFR2	IPI00010680	2.320614
hsa:3716	JAK1	IPI00443765	hsa:2885	GRB2	IPI00021327	2.318839
hsa:3717	JAK2	IPI00031016	hsa:2885	GRB2	IPI00021327	2.318839

hsa:6850	SYK	IPI00018597	hsa:1399	CRKL	IPI00004839	2.318839
hsa:6850	SYK	IPI00018597	hsa:6503	SLA	IPI00009499	2.318839
hsa:6850	SYK	IPI00018597	hsa:2885	GRB2	IPI00021327	2.318839
hsa:7297	TYK2	IPI00022353	hsa:1399	CRKL	IPI00004839	2.318839
hsa:7535	ZAP70	IPI00329789	hsa:84174	SLA2	IPI00030447	2.318839
hsa:7535	ZAP70	IPI00329789	hsa:6503	SLA	IPI00009499	2.318839
hsa:7535	ZAP70	IPI00329789	hsa:1399	CRKL	IPI00004839	2.318839
hsa:7535	ZAP70	IPI00329789	hsa:2885	GRB2	IPI00021327	2.318839
hsa:7535	ZAP70	IPI00329789	hsa:1398	CRK	IPI00004838	2.318839
hsa:5774	PTPN3	IPI00289649	hsa:25865	PRKD2	IPI00009334	2.307022
hsa:7046	TGFBR1	IPI00005733	hsa:3702	ITK	IPI00004566	2.306968
hsa:3654	IRAK1	IPI00293652	hsa:695	BTK	IPI00029132	2.306968
hsa:4868	NPHS1	unknown	hsa:8440	NCK2	IPI00306531	2.304392
hsa:4868	NPHS1	unknown	hsa:4690	NCK1	IPI00028065	2.304392
hsa:1630	DCC	IPI00016422	hsa:4690	NCK1	IPI00028065	2.304392
hsa:3691	ITGB4	IPI00027422	hsa:7525	YES1	IPI00013981	2.293671
hsa:3691	ITGB4	IPI00027422	hsa:2534	FYN	IPI00219012	2.293671
hsa:634	CEACAM1	IPI00009938	hsa:1088	CEACAM8	IPI00013972	2.290215
hsa:634	CEACAM1	IPI00009938	hsa:4680	CEACAM6	IPI00027412	2.290215
hsa:5817	PVR	IPI00299158	hsa:10666	CD226	IPI00008578	2.290215
hsa:10733	PLK4	IPI00410344	hsa:7006	TEC	IPI00000878	2.290014
hsa:580	BARD1	IPI00017746	hsa:983	CDC2	IPI00073536	2.28805
hsa:3122	HLA-DRA	IPI00005171	hsa:3127	HLA-DRB53123	IPI00746734	2.28737
hsa:3122	HLA-DRA	IPI00005171	hsa:3123	HLA-DRB1	unknown	2.28737
hsa:3113	HLA-DPA1	IPI00021711	hsa:3115	HLA-DPB1	IPI00472206	2.28737
hsa:3108	HLA-DMA	IPI00291924	hsa:3123	HLA-DRB1	unknown	2.28737
hsa:3118	HLA-DQA2	IPI00005172	hsa:3119	HLA-DQB1	IPI00005186	2.28737
hsa:3117	HLA-DQA1	IPI00289658	hsa:3119	HLA-DQB1	IPI00005186	2.28737
hsa:11183	MAP4K5	IPI00294842	hsa:25	ABL129892	IPI00216969	2.285202
hsa:11184	MAP4K1	IPI00020258	hsa:25	ABL129892	IPI00216969	2.285202
hsa:11184	MAP4K1	IPI00020258	hsa:4067	LYN	IPI00298625	2.285202
hsa:207	AKT1	IPI00012866	hsa:3551	IKBKB	IPI00024709	2.281515
hsa:207	AKT1	IPI00012866	hsa:1147	CHUK	IPI00005104	2.281515
hsa:208	AKT2	IPI00012870	hsa:1147	CHUK	IPI00005104	2.281515
hsa:2261	FGFR3	IPI00027174	hsa:25970	SH2B1	IPI00016441	2.254387
hsa:2260	FGFR1	IPI00005142	hsa:6452	SH3BP2	IPI00218997	2.254387
hsa:2260	FGFR1	IPI00005142	hsa:2888	GRB14	IPI00030917	2.254387
hsa:2322	FLT3	IPI00748391	hsa:6452	SH3BP2	IPI00218997	2.254387
hsa:3815	KIT	IPI00022296	hsa:2887	GRB10	IPI00012752	2.254387
hsa:3815	KIT	IPI00022296	hsa:2886	GRB7	IPI00448767	2.254387
hsa:3815	KIT	IPI00022296	hsa:10603	SH2B2	IPI00155706	2.254387
hsa:3815	KIT	IPI00022296	hsa:26228	STAP1	IPI00015876	2.254387
hsa:3815	KIT	IPI00022296	hsa:10019	SH2B3	IPI00010821	2.254387
hsa:5159	PDGFRB	IPI00015902	hsa:2886	GRB7	IPI00448767	2.254387
hsa:5159	PDGFRB	IPI00015902	hsa:2888	GRB14	IPI00030917	2.254387
hsa:5159	PDGFRB	IPI00015902	hsa:2887	GRB10	IPI00012752	2.254387
hsa:3791	KDR	IPI00021396	hsa:2887	GRB10	IPI00012752	2.254387
hsa:5156	PDGFRA	IPI00027721	hsa:2888	GRB14	IPI00030917	2.254387
hsa:3932	LCK	IPI00394952	hsa:1739	DLG1	IPI00030351	2.242069
hsa:4067	LYN	IPI00298625	hsa:1742	DLG4	IPI00619928	2.242069
hsa:7525	YES1	IPI00013981	hsa:1742	DLG4	IPI00619928	2.242069
hsa:2534	FYN	IPI00219012	hsa:1742	DLG4	IPI00619928	2.242069
hsa:5781	PTPN11	IPI00658023	hsa:780	DDR1	IPI00001477	2.226038
hsa:5781	PTPN11	IPI00658023	hsa:5595	MAPK3	IPI00018195	2.226038
hsa:5781	PTPN11	IPI00658023	hsa:1147	CHUK	IPI00005104	2.226038
hsa:5781	PTPN11	IPI00658023	hsa:4914	NTRK1	IPI00025076	2.226038
hsa:5781	PTPN11	IPI00658023	hsa:4216	MAP3K4	IPI00386260	2.226038
hsa:5781	PTPN11	IPI00658023	hsa:1956	EGFR	IPI00018274	2.226038
hsa:5781	PTPN11	IPI00658023	hsa:5979	RET	IPI00013983	2.226038
hsa:5781	PTPN11	IPI00658023	hsa:4233	MET	IPI00029273	2.226038

hsa:5777	PTPN6	IPI00218604	hsa:1956	EGFR	IPI00018274	2.226038
hsa:5781	PTPN11	IPI00658023	hsa:2064	ERBB2	IPI00300384	2.226038
hsa:5777	PTPN6	IPI00218604	hsa:4216	MAP3K4	IPI00386260	2.226038
hsa:5781	PTPN11	IPI00658023	hsa:2066	ERBB4	IPI00016371	2.226038
hsa:6640	SNTA1	IPI00164528	hsa:4842	NOS1	IPI00217225	2.220995
hsa:9267	PSCD1	IPI00478608	hsa:9595	PSCDBP	IPI00003591	2.220995
hsa:1785	DNM2	IPI00033022	hsa:22941	SHANK2	IPI00220490	2.220995
hsa:7074	TIAM1	IPI00011400	hsa:56288	PARD3	IPI00154915	2.220995
hsa:10603	SH2B2	IPI00155706	hsa:9260	PDLIM7	IPI00023122	2.220995
hsa:10256	CNKSR1	IPI00299824	hsa:114822	RHPN1	IPI00154752	2.220995
hsa:9265	PSCD3	IPI00013892	hsa:160622	GRASP	IPI00333325	2.220995
hsa:6242	RTKN	IPI00029834	hsa:57120	GOPC	IPI00186721	2.220995
hsa:8874	ARHGEF7	IPI00449906	hsa:23513	SCRIB	IPI00425560	2.220995
hsa:59339	PLEKHA2	IPI00455835	hsa:8777	MPDZ	IPI00552988	2.220995
hsa:23095	KIF1B	IPI00029011	hsa:10755	GIPC1	IPI00024705	2.220995
hsa:84904	C9orf100	IPI00181892	hsa:1856	DVL2	IPI00023103	2.220995
hsa:7074	TIAM1	IPI00011400	hsa:84687	PPP1R9B	IPI00816035	2.220995
hsa:23095	KIF1B	IPI00029011	hsa:6640	SNTA1	IPI00164528	2.220995
hsa:10276	NET1	IPI00385312	hsa:9223	MAGI1	IPI00470759	2.220995
hsa:22866	CNKSR2	IPI00435208	hsa:57554	LRRC7	IPI00426267	2.220995
hsa:1894	ECT2	IPI00787864	hsa:50855	PARD6A	IPI00027217	2.220995
hsa:6242	RTKN	IPI00029834	hsa:30851	TAX1BP3	IPI00005585	2.220995
hsa:59338	PLEKHA1	IPI00306354	hsa:8777	MPDZ	IPI00552988	2.220995
hsa:59338	PLEKHA1	IPI00306354	hsa:5783	PTPN13	IPI00030246	2.220995
hsa:22866	CNKSR2	IPI00435208	hsa:5998	RGS3	IPI00181533	2.220995
hsa:23095	KIF1B	IPI00029011	hsa:10207	INADL	IPI00304064	2.220995
hsa:22866	CNKSR2	IPI00435208	hsa:10207	INADL	IPI00304064	2.220995
hsa:9265	PSCD3	IPI00013892	hsa:10256	CNKSR1	IPI00299824	2.220995
hsa:8874	ARHGEF7	IPI00449906	hsa:22941	SHANK2	IPI00220490	2.220995
hsa:59339	PLEKHA2	IPI00455835	hsa:5783	PTPN13	IPI00030246	2.220995
hsa:9265	PSCD3	IPI00013892	hsa:10256	CNKSR1	IPI00299824	2.220995
hsa:84904	C9orf100	IPI00181892	hsa:1856	DVL2	IPI00023103	2.220995
hsa:2885	GRB2	IPI00021327	hsa:23164	M-RIP	IPI00305344	2.211697
hsa:2048	EPHB2	IPI00021275	hsa:27	ABL2	IPI00329488	2.210683
hsa:2048	EPHB2	IPI00021275	hsa:6714	SRC	IPI00641230	2.210683
hsa:2048	EPHB2	IPI00021275	hsa:25	ABL129892	IPI00216969	2.210683
hsa:2049	EPHB3	IPI00289329	hsa:2534	FYN	IPI00219012	2.210683
hsa:5062	PAK2	IPI00787208	hsa:6714	SRC	IPI00641230	2.206641
hsa:5062	PAK2	IPI00787208	hsa:25	ABL129892	IPI00216969	2.206641
hsa:1432	MAPK14	IPI00002857	hsa:4772	NFATC1	IPI00032069	2.205244
hsa:1432	MAPK14	IPI00002857	hsa:4776	NFATC4	IPI00292684	2.205244
hsa:1019	CDK4	IPI00007811	hsa:595	CCND1	IPI00028098	2.205244
hsa:7048	TGFBR2	IPI00020431	hsa:9133	CCNB2	IPI00028266	2.205244
hsa:7048	TGFBR2	IPI00020431	hsa:891	CCNB1	IPI00745793	2.205244
hsa:5599	MAPK8	IPI00024672	hsa:5966	REL	IPI00029773	2.205244
hsa:1020	CDK5	IPI00023530	hsa:91768	CABLES1	IPI00291427	2.205244
hsa:1020	CDK5	IPI00023530	hsa:81928	CABLES2	IPI00030512	2.205244
hsa:1020	CDK5	IPI00023530	hsa:900	CCNG1	IPI00021335	2.205244
hsa:5585	PKN1	IPI00002803	hsa:905	CCNT2	IPI00030313	2.205244
hsa:25	ABL129892	IPI00216969	hsa:91768	CABLES1	IPI00291427	2.205244
hsa:25	ABL129892	IPI00216969	hsa:81928	CABLES2	IPI00030512	2.205244
hsa:983	CDC2	IPI00073536	hsa:8900	CCNA1	IPI00019284	2.205244
hsa:983	CDC2	IPI00073536	hsa:9133	CCNB2	IPI00028266	2.205244
hsa:983	CDC2	IPI00073536	hsa:898	CCNE1	IPI00031077	2.205244
hsa:983	CDC2	IPI00073536	hsa:891	CCNB1	IPI00745793	2.205244
hsa:983	CDC2	IPI00073536	hsa:890	CCNA2	IPI00022865	2.205244
hsa:5578	PRKCA	IPI00385449	hsa:4772	NFATC1	IPI00032069	2.205244
hsa:1452	CSNK1A1	IPI00183400	hsa:4775	NFATC3	IPI00030369	2.205244
hsa:5590	PRKCZ	IPI00013749	hsa:4773	NFATC2	IPI00297845	2.205244
hsa:2932	GSK3B	IPI00028570	hsa:898	CCNE1	IPI00031077	2.205244

hsa:1017	CDK2	IPI00031681	hsa:9133	CCNB2	IPI00028266	2.205244
hsa:1017	CDK2	IPI00031681	hsa:902	CCNH	IPI00021305	2.205244
hsa:1017	CDK2	IPI00031681	hsa:8812	CCNK	IPI00411579	2.205244
hsa:1017	CDK2	IPI00031681	hsa:8900	CCNA1	IPI00019284	2.205244
hsa:1017	CDK2	IPI00031681	hsa:9134	CCNE2	IPI00014085	2.205244
hsa:1017	CDK2	IPI00031681	hsa:85417	CCNB3	IPI00152849	2.205244
hsa:1017	CDK2	IPI00031681	hsa:898	CCNE1	IPI00031077	2.205244
hsa:5347	PLK1	IPI00021248	hsa:699	BUB1	IPI00783305	2.205244
hsa:5347	PLK1	IPI00021248	hsa:7465	WEE1	IPI00025830	2.205244
hsa:5347	PLK1	IPI00021248	hsa:9088	PKMYT1	IPI00384765	2.205244
hsa:1025	CDK9	IPI00301923	hsa:8812	CCNK	IPI00411579	2.205244
hsa:1025	CDK9	IPI00301923	hsa:905	CCNT2	IPI00030313	2.205244
hsa:1018	CDK3	IPI00023503	hsa:9134	CCNE2	IPI00014085	2.205244
hsa:1018	CDK3	IPI00023503	hsa:91768	CABLES1	IPI00291427	2.205244
hsa:1018	CDK3	IPI00023503	hsa:81928	CABLES2	IPI00030512	2.205244
hsa:1018	CDK3	IPI00023503	hsa:898	CCNE1	IPI00031077	2.205244
hsa:1022	CDK7	IPI00000685	hsa:902	CCNH	IPI00021305	2.205244
hsa:5601	MAPK9	IPI00024673	hsa:4775	NFATC3	IPI00030369	2.205244
hsa:984	CDC2L1	IPI00215999	hsa:81669	CCNL2	IPI00066458	2.205244
hsa:1024	CDK8	IPI00026791	hsa:902	CCNH	IPI00021305	2.205244
hsa:1859	DYRK1A	IPI00014344	hsa:81669	CCNL2	IPI00066458	2.205244
hsa:56893	UBQLN4	IPI00024502	hsa:28951	TRIB2	IPI00012516	2.205244
hsa:1147	CHUK	IPI00005104	hsa:5971	RELB	IPI00221034	2.205244
hsa:1452	CSNK1A1	IPI00183400	hsa:4776	NFATC4	IPI00292684	2.205244
hsa:5747	PTK2	IPI00012885	hsa:8900	CCNA1	IPI00019284	2.205244
hsa:1453	CSNK1D	IPI00011102	hsa:8900	CCNA1	IPI00019284	2.205244
hsa:1025	CDK9	IPI00301923	hsa:904	CCNT1	IPI00030247	2.205244
hsa:1111	CHEK1	IPI00023664	hsa:5970	RELA	IPI00386448	2.205244
hsa:814	CAMK4	IPI00430411	hsa:5970	RELA	IPI00386448	2.205244
hsa:29110	TBK1	IPI00293613	hsa:5970	RELA	IPI00386448	2.205244
hsa:6885	MAP3K7	IPI00295738	hsa:5970	RELA	IPI00386448	2.205244
hsa:5608	MAP2K6	IPI00003814	hsa:5970	RELA	IPI00386448	2.205244
hsa:695	BTK	IPI00029132	hsa:5970	RELA	IPI00386448	2.205244
hsa:1326	MAP3K8	IPI00298726	hsa:5970	RELA	IPI00386448	2.205244
hsa:1147	CHUK	IPI00005104	hsa:5970	RELA	IPI00386448	2.205244
hsa:57761	TRIB3	IPI00290307	hsa:5970	RELA	IPI00386448	2.205244
hsa:9252	RPS6KA5	IPI00335101	hsa:5970	RELA	IPI00386448	2.205244
hsa:3551	IKBKB	IPI00024709	hsa:5970	RELA	IPI00386448	2.205244
hsa:5566	PRKACA730418	IPI00396630	hsa:5970	RELA	IPI00386448	2.205244
hsa:5590	PRKCZ	IPI00013749	hsa:5970	RELA	IPI00386448	2.205244
hsa:1025	CDK9	IPI00301923	hsa:5970	RELA	IPI00386448	2.205244
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hsa:1021	CDK6	IPI00023529	hsa:595	CCND1	IPI00028098	2.205244
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hsa:10733	PLK4	IPI00410344	hsa:7046	TGFBR1	IPI00005733	2.205244
hsa:1263	PLK3	IPI00304186	hsa:5594	MAPK1	IPI00003479	2.205244
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hsa:1018	CDK3	IPI00023503	hsa:890	CCNA2	IPI00022865	2.205244
hsa:1017	CDK2	IPI00031681	hsa:890	CCNA2	IPI00022865	2.205244
hsa:55872	PBK	IPI00306708	hsa:891	CCNB1	IPI00745793	2.205244
hsa:5891	RAGE	IPI00413657	hsa:891	CCNB1	IPI00745793	2.205244
hsa:9088	PKMYT1	IPI00384765	hsa:891	CCNB1	IPI00745793	2.205244
hsa:5347	PLK1	IPI00021248	hsa:891	CCNB1	IPI00745793	2.205244
hsa:5292	PIM1	IPI00005014	hsa:4772	NFATC1	IPI00032069	2.205244
hsa:1024	CDK8	IPI00026791	hsa:1030	CDKN2B	IPI00001563	2.205244
hsa:1326	MAP3K8	IPI00298726	hsa:5966	REL	IPI00029773	2.205244
hsa:5129	PCTK3	IPI00383457	hsa:8812	CCNK	IPI00411579	2.205244
hsa:56893	UBQLN4	IPI00024502	hsa:1760	DMPK	IPI00305254	2.205244
hsa:1454	CSNK1E	IPI00027729	hsa:8900	CCNA1	IPI00019284	2.205244

hsa:8767	RIPK2	IPI00021917	hsa:4773	NFATC2	IPI00297845	2.205244
hsa:1017	CDK2	IPI00031681	hsa:595	CCND1	IPI00028098	2.205244
hsa:5129	PCTK3	IPI00383457	hsa:8812	CCNK	IPI00411579	2.205244
hsa:2212	FCGR2A	IPI00023505	hsa:51206	GP6	IPI00737479	2.197164
hsa:6098	ROS1	IPI00288965	hsa:25	ABL129892	IPI00216969	2.183093
hsa:5747	PTK2	IPI00012885	hsa:7145	TNS1	IPI00384868	2.181806
hsa:5747	PTK2	IPI00012885	hsa:8835	SOCS2	IPI00033944	2.181806
hsa:5747	PTK2	IPI00012885	hsa:6464	SHC1	IPI00645103	2.181806
hsa:5747	PTK2	IPI00012885	hsa:5295	PIK3R1	IPI00021448	2.181806
hsa:2185	PTK2B	IPI00029702	hsa:10044	SH2D3C	IPI00171093	2.181806
hsa:2185	PTK2B	IPI00029702	hsa:7535	ZAP70	IPI00329789	2.181806
hsa:2185	PTK2B	IPI00029702	hsa:6774	STAT3	IPI00784414	2.181806
hsa:2185	PTK2B	IPI00029702	hsa:3716	JAK1	IPI00443765	2.181806
hsa:2185	PTK2B	IPI00029702	hsa:3717	JAK2	IPI00031016	2.181806
hsa:5747	PTK2	IPI00012885	hsa:3717	JAK2	IPI00031016	2.181806
hsa:2185	PTK2B	IPI00029702	hsa:6850	SYK	IPI00018597	2.181806
hsa:5747	PTK2	IPI00012885	hsa:6850	SYK	IPI00018597	2.181806
hsa:2185	PTK2B	IPI00029702	hsa:3718	JAK3	IPI00002773	2.181806
hsa:5747	PTK2	IPI00012885	hsa:6772	STAT1	IPI00030781	2.181806
hsa:2185	PTK2B	IPI00029702	hsa:6464	SHC1	IPI00645103	2.181806
hsa:2185	PTK2B	IPI00029702	hsa:5295	PIK3R1	IPI00021448	2.181806
hsa:5747	PTK2	IPI00012885	hsa:8835	SOCS2	IPI00033944	2.181806
hsa:695	BTK	IPI00029132	hsa:25998	IBTK	IPI00792333	2.174695
hsa:5592	PRKG1	IPI00436355	hsa:5894	RAF1	IPI00021786	2.155916
hsa:7525	YES1	IPI00013981	hsa:7159	TP53BP2	IPI00337588	2.149143
hsa:5879	RAC1	IPI00010271	hsa:4216	MAP3K4	IPI00386260	2.145471
hsa:5879	RAC1	IPI00010271	hsa:6198	RPS6KB1	IPI00216132	2.145471
hsa:5879	RAC1	IPI00010271	hsa:5578	PRKCA	IPI00385449	2.145471
hsa:375	ARF1	IPI00215914	hsa:3643	INSR	IPI00220325	2.145471
hsa:3265	HRAS	IPI00000006	hsa:3656	IRAK2	IPI00304986	2.145471
hsa:3265	HRAS	IPI00000006	hsa:3654	IRAK1	IPI00293652	2.145471
hsa:998	CDC42	IPI00007189	hsa:5601	MAPK9	IPI00024673	2.145471
hsa:998	CDC42	IPI00007189	hsa:6198	RPS6KB1	IPI00216132	2.145471
hsa:998	CDC42	IPI00007189	hsa:4216	MAP3K4	IPI00386260	2.145471
hsa:5861	RAB1A	IPI00005719	hsa:57143	ADCK1	IPI00787836	2.145471
hsa:5881	RAC3	IPI00023138	hsa:29959	NRBP1	IPI00604756	2.145471
hsa:5901	RAN	IPI00643041	hsa:91754	NEK9	IPI00301609	2.145471
hsa:4218	RAB8A	IPI00028481	hsa:5871	MAP4K2	IPI00149094	2.145471
hsa:5908	RAP1B	IPI00015148	hsa:9020	MAP3K14	IPI00016099	2.145471
hsa:10890	RAB10	IPI00016513	hsa:6790	AURKA	IPI00298940	2.145471
hsa:56681	SAR1A	IPI00015954	hsa:9641	IKBKE	IPI00029045	2.145471
hsa:51552	RAB14	IPI00291928	hsa:9641	IKBKE	IPI00029045	2.145471
hsa:7879	RAB7A	IPI00016342	hsa:9641	IKBKE	IPI00029045	2.145471
hsa:28512	NKIRAS1	IPI00410705	hsa:7046	TGFBR1	IPI00005733	2.145471
hsa:57381	RHOJ	IPI00027952	hsa:7046	TGFBR1	IPI00005733	2.145471
hsa:399	RHOH	IPI00018882	hsa:7046	TGFBR1	IPI00005733	2.145471
hsa:391	RHOG	IPI00017342	hsa:7046	TGFBR1	IPI00005733	2.145471
hsa:29984	RHOD	IPI00010841	hsa:7046	TGFBR1	IPI00005733	2.145471
hsa:387	RHOA	IPI00478231	hsa:7046	TGFBR1	IPI00005733	2.145471
hsa:121268	RHEBL1	IPI00556561	hsa:7046	TGFBR1	IPI00005733	2.145471
hsa:55207	ARL8B	IPI00018871	hsa:7046	TGFBR1	IPI00005733	2.145471
hsa:23551	RASD2	IPI00304150	hsa:7046	TGFBR1	IPI00005733	2.145471
hsa:5911	RAP2A	IPI00019346	hsa:7046	TGFBR1	IPI00005733	2.145471
hsa:5901	RAN	IPI00643041	hsa:7046	TGFBR1	IPI00005733	2.145471
hsa:51560	RAB6B	IPI00016891	hsa:7046	TGFBR1	IPI00005733	2.145471
hsa:5865	RAB3B	IPI00300562	hsa:7046	TGFBR1	IPI00005733	2.145471
hsa:23682	RAB38	IPI00027981	hsa:7046	TGFBR1	IPI00005733	2.145471
hsa:83871	RAB34	IPI00328180	hsa:7046	TGFBR1	IPI00005733	2.145471
hsa:83452	RAB33B	IPI00021475	hsa:7046	TGFBR1	IPI00005733	2.145471
hsa:5872	RAB13	IPI00016373	hsa:7046	TGFBR1	IPI00005733	2.145471

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hsa:5867	RAB4A	IPI00480056	hsa:5595	MAPK3	IPI00018195	2.145471
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hsa:22800	RRAS2	IPI00012512	hsa:90	ACVR1	IPI00029219	2.145471
hsa:57381	RHOJ	IPI00027952	hsa:90	ACVR1	IPI00029219	2.145471
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hsa:83452	RAB33B	IPI00021475	hsa:90	ACVR1	IPI00029219	2.145471
hsa:64284	RAB17	IPI00007866	hsa:90	ACVR1	IPI00029219	2.145471
hsa:4893	NRAS	IPI00000005	hsa:90	ACVR1	IPI00029219	2.145471
hsa:28512	NKIRAS1	IPI00410705	hsa:90	ACVR1	IPI00029219	2.145471
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hsa:5869	RAB5B	IPI00017344	hsa:983	CDC2	IPI00073536	2.145471
hsa:5867	RAB4A	IPI00480056	hsa:983	CDC2	IPI00073536	2.145471
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hsa:387	RHOA	IPI00478231	hsa:5578	PRKCA	IPI00385449	2.145471
hsa:998	CDC42	IPI00007189	hsa:5578	PRKCA	IPI00385449	2.145471
hsa:6236	RRAD	IPI00375333	hsa:5566	PRKACA730418	IPI00396630	2.145471
hsa:5908	RAP1B	IPI00015148	hsa:5566	PRKACA730418	IPI00396630	2.145471
hsa:5906	RAP1A	IPI00019345	hsa:5566	PRKACA730418	IPI00396630	2.145471
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hsa:387	RHOA	IPI00478231	hsa:5590	PRKCCZ	IPI00013749	2.145471
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hsa:998	CDC42	IPI00007189	hsa:5590	PRKCCZ	IPI00013749	2.145471
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hsa:57381	RHOJ	IPI00027952	hsa:658	BMPR1B	IPI00010862	2.145471
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hsa:23682	RAB38	IPI00027981	hsa:658	BMPR1B	IPI00010862	2.145471
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hsa:6237	RRAS	IPI00020418	hsa:2048	EPHB2	IPI00021275	2.145471
hsa:6236	RRAD	IPI00375333	hsa:1457	CSNK2A1	IPI00744507	2.145471
hsa:5911	RAP2A	IPI00019346	hsa:9448	MAP4K4	IPI00006752	2.145471
hsa:6236	RRAD	IPI00375333	hsa:5579	PRKCB1	IPI00010466	2.145471
hsa:998	CDC42	IPI00007189	hsa:57787	MARK4	IPI00064797	2.145471
hsa:6236	RRAD	IPI00375333	hsa:818	CAMK2G	IPI00334344	2.145471
hsa:3265	HRAS	IPI00000006	hsa:3643	INSR	IPI00220325	2.145471
hsa:998	CDC42	IPI00007189	hsa:5582	PRKCG	IPI00007128	2.145471
hsa:5906	RAP1A	IPI00019345	hsa:4914	NTRK1	IPI00025076	2.145471
hsa:5911	RAP2A	IPI00019346	hsa:23043	TNIK	IPI00145805	2.145471
hsa:23011	RAB21	IPI00007755	hsa:9641	IKBKE	IPI00029045	2.145471
hsa:389	RHOC	IPI00027434	hsa:9641	IKBKE	IPI00029045	2.145471
hsa:8766	RAB11A	IPI00429190	hsa:9641	IKBKE	IPI00029045	2.145471
hsa:5878	RAB5C	IPI00016339	hsa:9641	IKBKE	IPI00029045	2.145471
hsa:5868	RAB5A	IPI00023510	hsa:9641	IKBKE	IPI00029045	2.145471
hsa:5878	RAB5C	IPI00016339	hsa:25778	RIPK5	IPI00465346	2.145471
hsa:51552	RAB14	IPI00291928	hsa:25778	RIPK5	IPI00465346	2.145471
hsa:2242	FES	IPI00294344	hsa:9564	BCAR1	IPI00872386	2.138698

hsa:5594	MAPK1	IPI00003479	hsa:6654	SOS1	IPI00020131	2.138087
hsa:1956	EGFR	IPI00018274	hsa:6655	SOS2	IPI00020134	2.138087
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hsa:2260	FGFR1	IPI00005142	hsa:6654	SOS1	IPI00020131	2.138087
hsa:1436	CSF1R	IPI00011218	hsa:6654	SOS1	IPI00020131	2.138087
hsa:2064	ERBB2	IPI00300384	hsa:6654	SOS1	IPI00020131	2.138087
hsa:5728	PTEN	IPI00012587	hsa:1739	DLG1	IPI00030351	2.131258
hsa:5793	PTPRG	IPI00011651	hsa:1742	DLG4	IPI00619928	2.131258
hsa:5784	PTPN14	IPI00018914	hsa:7082	TJP1	IPI00216219	2.131258
hsa:558	AXL	IPI00397361	hsa:8440	NCK2	IPI00306531	2.129375
hsa:558	AXL	IPI00397361	hsa:5296	PIK3R2	IPI00011736	2.129375
hsa:10461	MERTK	IPI00029756	hsa:2885	GRB2	IPI00021327	2.129375
hsa:558	AXL	IPI00397361	hsa:2885	GRB2	IPI00021327	2.129375
hsa:1856	DVL2	IPI00023103	hsa:387	RHOA	IPI00478231	2.115234
hsa:4842	NOS1	IPI00217225	hsa:51655	RASD1	IPI00007111	2.115234
hsa:22999	RIMS1	IPI00387015	hsa:25837	RAB26	IPI00419883	2.115234
hsa:22999	RIMS1	IPI00387015	hsa:326624	RAB37	IPI00073180	2.115234
hsa:22999	RIMS1	IPI00387015	hsa:10890	RAB10	IPI00016513	2.115234
hsa:22999	RIMS1	IPI00387015	hsa:5873	RAB27A	IPI00016381	2.115234
hsa:22999	RIMS1	IPI00387015	hsa:5864	RAB3A	IPI00023504	2.115234
hsa:9699	RIMS2	IPI00005698	hsa:115827	RAB3C	IPI00061114	2.115234
hsa:9699	RIMS2	IPI00005698	hsa:9545	RAB3D	IPI00032808	2.115234
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hsa:9699	RIMS2	IPI00005698	hsa:5865	RAB3B	IPI00300562	2.115234
hsa:9699	RIMS2	IPI00005698	hsa:4218	RAB8A	IPI00028481	2.115234
hsa:56288	PARD3	IPI00154915	hsa:998	CDC42	IPI00007189	2.115234
hsa:9260	PDLIM7	IPI00023122	hsa:2669	GEM	IPI00022710	2.115234
hsa:84708	LNX1	IPI00152181	hsa:373	TRIM23	IPI00003328	2.115234
hsa:1855	DVL1	IPI00023100	hsa:5879	RAC1	IPI00010271	2.115234
hsa:1856	DVL2	IPI00023103	hsa:5879	RAC1	IPI00010271	2.115234
hsa:6386	SDCBP	IPI00299086	hsa:5868	RAB5A	IPI00023510	2.115234
hsa:9463	PICK1	IPI00160369	hsa:377	ARF3	IPI00215917	2.115234
hsa:9463	PICK1	IPI00160369	hsa:375	ARF1	IPI00215914	2.115234
hsa:57120	GOPC	IPI00186721	hsa:23433	RHOQ	IPI00012511	2.115234
hsa:84953	MICALCL	IPI00844523	hsa:81876	RAB1B	IPI00008964	2.115234
hsa:9260	PDLIM7	IPI00023122	hsa:2669	GEM	IPI00022710	2.115234
hsa:25	ABL129892	IPI00216969	hsa:9051	PSTPIP1	IPI00022606	2.10807
hsa:4811	NID1	IPI00026944	hsa:5328	PLAU	IPI00296180	2.102428
hsa:7057	THBS1	IPI00296099	hsa:5340	PLG	IPI00019580	2.102428
hsa:7057	THBS1	IPI00296099	hsa:2147	F2	IPI00019568	2.102428
hsa:60312	AFAP1	IPI00444138	hsa:5582	PRKCG	IPI00007128	2.08973
hsa:60312	AFAP1	IPI00444138	hsa:5578	PRKCA	IPI00385449	2.08973
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hsa:5338	PLD2	IPI00024727	hsa:5578	PRKCA	IPI00385449	2.08973
hsa:5337	PLD1	IPI00012865	hsa:5578	PRKCA	IPI00385449	2.08973
hsa:3667	IRS1	IPI00019471	hsa:5582	PRKCG	IPI00007128	2.08973
hsa:9266	PSCD2	IPI00015228	hsa:5582	PRKCG	IPI00007128	2.08973
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hsa:60312	AFAP1	IPI00444138	hsa:5581	PRKCE	IPI00024539	2.08973
hsa:11033	CENTA1	IPI00009992	hsa:5581	PRKCE	IPI00024539	2.08973
hsa:5337	PLD1	IPI00012865	hsa:5585	PKN1	IPI00002803	2.08973
hsa:8527	DGKD	IPI00303136	hsa:5578	PRKCA	IPI00385449	2.08973
hsa:9266	PSCD2	IPI00015228	hsa:5578	PRKCA	IPI00385449	2.08973
hsa:1759	DNM1	IPI00873844	hsa:5578	PRKCA	IPI00385449	2.08973
hsa:11033	CENTA1	IPI00009992	hsa:5578	PRKCA	IPI00385449	2.08973
hsa:634	CEACAM1	IPI00009938	hsa:3643	INSR	IPI00220325	2.077719
hsa:1432	MAPK14	IPI00002857	hsa:6775	STAT4	IPI00000106	2.071011
hsa:1432	MAPK14	IPI00002857	hsa:6772	STAT1	IPI00030781	2.071011
hsa:7046	TGFBR1	IPI00005733	hsa:1123	CHN1	IPI00013488	2.071011

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hsa:7046	TGFBR1	IPI00005733	hsa:5295	PIK3R1	IPI00021448	2.071011
hsa:7048	TGFBR2	IPI00020431	hsa:5295	PIK3R1	IPI00021448	2.071011
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hsa:3716	JAK1	IPI00443765	hsa:9021	SOCS3	IPI00297349	2.071011
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hsa:3716	JAK1	IPI00443765	hsa:6461	SHB	IPI00604688	2.071011
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hsa:3717	JAK2	IPI00031016	hsa:9021	SOCS3	IPI00297349	2.071011
hsa:3717	JAK2	IPI00031016	hsa:8651	SOCS1	IPI00021491	2.071011
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hsa:5979	RET	IPI00013983	hsa:53358	SHC3	IPI00409679	2.071011
hsa:5979	RET	IPI00013983	hsa:6464	SHC1	IPI00645103	2.071011
hsa:5979	RET	IPI00013983	hsa:5295	PIK3R1	IPI00021448	2.071011
hsa:4233	MET	IPI00029273	hsa:5295	PIK3R1	IPI00021448	2.071011
hsa:4233	MET	IPI00029273	hsa:3636	INPPL1	IPI00016932	2.071011
hsa:4233	MET	IPI00029273	hsa:3635	INPP5D646743	IPI00329213	2.071011
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hsa:2242	FES	IPI00294344	hsa:84941	HSH2D	IPI00657885	2.071011
hsa:2242	FES	IPI00294344	hsa:5295	PIK3R1	IPI00021448	2.071011
hsa:6850	SYK	IPI00018597	hsa:5295	PIK3R1	IPI00021448	2.071011
hsa:6850	SYK	IPI00018597	hsa:29760	BLNK	IPI00002434	2.071011
hsa:6850	SYK	IPI00018597	hsa:3937	LCP2	IPI00297169	2.071011
hsa:3718	JAK3	IPI00002773	hsa:3635	INPP5D646743	IPI00329213	2.071011
hsa:3718	JAK3	IPI00002773	hsa:9021	SOCS3	IPI00297349	2.071011
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hsa:3718	JAK3	IPI00002773	hsa:8651	SOCS1	IPI00021491	2.071011
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hsa:5595	MAPK3	IPI00018195	hsa:6776	STAT5A	IPI00030783	2.071011
hsa:1956	EGFR	IPI00018274	hsa:53358	SHC3	IPI00409679	2.071011
hsa:1956	EGFR	IPI00018274	hsa:10045	SH2D3A	IPI00305020	2.071011
hsa:1956	EGFR	IPI00018274	hsa:6777	STAT5B	IPI00103415	2.071011
hsa:1956	EGFR	IPI00018274	hsa:9021	SOCS3	IPI00297349	2.071011
hsa:1956	EGFR	IPI00018274	hsa:8651	SOCS1	IPI00021491	2.071011
hsa:1956	EGFR	IPI00018274	hsa:6776	STAT5A	IPI00030783	2.071011
hsa:1956	EGFR	IPI00018274	hsa:3636	INPPL1	IPI00016932	2.071011
hsa:1956	EGFR	IPI00018274	hsa:6464	SHC1	IPI00645103	2.071011
hsa:1956	EGFR	IPI00018274	hsa:5295	PIK3R1	IPI00021448	2.071011
hsa:1020	CDK5	IPI00023530	hsa:1123	CHN1	IPI00013488	2.071011
hsa:90	ACVR1	IPI00029219	hsa:9306	SOCS6	IPI00297351	2.071011
hsa:90	ACVR1	IPI00029219	hsa:1123	CHN1	IPI00013488	2.071011
hsa:658	BMPR1B	IPI00010862	hsa:1123	CHN1	IPI00013488	2.071011
hsa:658	BMPR1B	IPI00010862	hsa:9306	SOCS6	IPI00297351	2.071011
hsa:2066	ERBB4	IPI00016371	hsa:6776	STAT5A	IPI00030783	2.071011
hsa:4914	NTRK1	IPI00025076	hsa:25759	SHC2	IPI00786975	2.071011
hsa:2064	ERBB2	IPI00300384	hsa:8503	PIK3R3	IPI00513745	2.071011
hsa:2064	ERBB2	IPI00300384	hsa:116449	MIST	IPI00185667	2.071011
hsa:2064	ERBB2	IPI00300384	hsa:117157	SH2D1B	IPI00023755	2.071011
hsa:2064	ERBB2	IPI00300384	hsa:25759	SHC2	IPI00786975	2.071011
hsa:2064	ERBB2	IPI00300384	hsa:6830	SUPT6H	IPI00784161	2.071011
hsa:2064	ERBB2	IPI00300384	hsa:1154	CISH	IPI00017281	2.071011
hsa:2064	ERBB2	IPI00300384	hsa:1123	CHN1	IPI00013488	2.071011
hsa:2064	ERBB2	IPI00300384	hsa:29760	BLNK	IPI00002434	2.071011
hsa:2064	ERBB2	IPI00300384	hsa:8412	BCAR3	IPI00179053	2.071011

hsa:2064	ERBB2	IPI00300384	hsa:6774	STAT3	IPI00784414	2.071011
hsa:2064	ERBB2	IPI00300384	hsa:6772	STAT1	IPI00030781	2.071011
hsa:2064	ERBB2	IPI00300384	hsa:8651	SOCS1	IPI00021491	2.071011
hsa:2064	ERBB2	IPI00300384	hsa:53358	SHC3	IPI00409679	2.071011
hsa:2064	ERBB2	IPI00300384	hsa:9047	SH2D2A	IPI00099806	2.071011
hsa:2064	ERBB2	IPI00300384	hsa:9610	RIN1	IPI00014454	2.071011
hsa:2066	ERBB4	IPI00016371	hsa:6464	SHC1	IPI00645103	2.071011
hsa:4914	NTRK1	IPI00025076	hsa:4068	SH2D1A	IPI00032401	2.071011
hsa:6885	MAP3K7	IPI00295738	hsa:6774	STAT3	IPI00784414	2.071011
hsa:1956	EGFR	IPI00018274	hsa:6774	STAT3	IPI00784414	2.071011
hsa:3654	IRAK1	IPI00293652	hsa:6774	STAT3	IPI00784414	2.071011
hsa:51701	NLK	IPI00008237	hsa:6774	STAT3	IPI00784414	2.071011
hsa:5595	MAPK3	IPI00018195	hsa:6774	STAT3	IPI00784414	2.071011
hsa:5599	MAPK8	IPI00024672	hsa:6774	STAT3	IPI00784414	2.071011
hsa:5594	MAPK1	IPI00003479	hsa:6774	STAT3	IPI00784414	2.071011
hsa:5610	EIF2AK2	IPI00019463	hsa:6774	STAT3	IPI00784414	2.071011
hsa:4233	MET	IPI00029273	hsa:6774	STAT3	IPI00784414	2.071011
hsa:5979	RET	IPI00013983	hsa:6774	STAT3	IPI00784414	2.071011
hsa:4486	MST1R	IPI00030273	hsa:3717	JAK2	IPI00031016	2.071011
hsa:5595	MAPK3	IPI00018195	hsa:6850	SYK	IPI00018597	2.071011
hsa:817	CAMK2D	IPI00430291	hsa:6772	STAT1	IPI00030781	2.071011
hsa:818	CAMK2G	IPI00334344	hsa:6772	STAT1	IPI00030781	2.071011
hsa:1956	EGFR	IPI00018274	hsa:6772	STAT1	IPI00030781	2.071011
hsa:9261	MAPKAPK2	IPI00026054	hsa:6464	SHC1	IPI00645103	2.071011
hsa:4914	NTRK1	IPI00025076	hsa:6464	SHC1	IPI00645103	2.071011
hsa:780	DDR1	IPI00001477	hsa:6464	SHC1	IPI00645103	2.071011
hsa:11184	MAP4K1	IPI00020258	hsa:6464	SHC1	IPI00645103	2.071011
hsa:4486	MST1R	IPI00030273	hsa:6464	SHC1	IPI00645103	2.071011
hsa:4921	DDR2	IPI00004409	hsa:6464	SHC1	IPI00645103	2.071011
hsa:4058	LTK	IPI00021365	hsa:6464	SHC1	IPI00645103	2.071011
hsa:2064	ERBB2	IPI00300384	hsa:6464	SHC1	IPI00645103	2.071011
hsa:238	ALK	IPI00395632	hsa:6464	SHC1	IPI00645103	2.071011
hsa:4914	NTRK1	IPI00025076	hsa:53358	SHC3	IPI00409679	2.071011
hsa:238	ALK	IPI00395632	hsa:53358	SHC3	IPI00409679	2.071011
hsa:4914	NTRK1	IPI00025076	hsa:5295	PIK3R1	IPI00021448	2.071011
hsa:4486	MST1R	IPI00030273	hsa:5295	PIK3R1	IPI00021448	2.071011
hsa:7297	TYK2	IPI00022353	hsa:5295	PIK3R1	IPI00021448	2.071011
hsa:2064	ERBB2	IPI00300384	hsa:5295	PIK3R1	IPI00021448	2.071011
hsa:11184	MAP4K1	IPI00020258	hsa:29760	BLNK	IPI00002434	2.071011
hsa:1454	CSNK1E	IPI00027729	hsa:9021	SOCS3	IPI00297349	2.071011
hsa:7535	ZAP70	IPI00329789	hsa:6461	SHB	IPI00604688	2.071011
hsa:11184	MAP4K1	IPI00020258	hsa:3937	LCP2	IPI00297169	2.071011
hsa:7535	ZAP70	IPI00329789	hsa:3937	LCP2	IPI00297169	2.071011
hsa:11040	PIM2	IPI00332692	hsa:8651	SOCS1	IPI00021491	2.071011
hsa:5608	MAP2K6	IPI00003814	hsa:6775	STAT4	IPI00000106	2.071011
hsa:1956	EGFR	IPI00018274	hsa:1154	CISH	IPI00017281	2.071011
hsa:1956	EGFR	IPI00018274	hsa:84951	TNS4	IPI00170752	2.071011
hsa:1956	EGFR	IPI00018274	hsa:25759	SHC2	IPI00786975	2.071011
hsa:1956	EGFR	IPI00018274	hsa:116449	MIST	IPI00185667	2.071011
hsa:1956	EGFR	IPI00018274	hsa:8503	PIK3R3	IPI00513745	2.071011
hsa:1956	EGFR	IPI00018274	hsa:4068	SH2D1A	IPI00032401	2.071011
hsa:1956	EGFR	IPI00018274	hsa:9047	SH2D2A	IPI00099806	2.071011
hsa:2066	ERBB4	IPI00016371	hsa:6777	STAT5B	IPI00103415	2.071011
hsa:6464	SHC1	IPI00645103	hsa:5296	PIK3R2	IPI00011736	2.060054
hsa:5747	PTK2	IPI00012885	hsa:8440	NCK2	IPI00306531	2.044165
hsa:5747	PTK2	IPI00012885	hsa:1398	CRK	IPI00004838	2.044165
hsa:5747	PTK2	IPI00012885	hsa:4067	LYN	IPI00298625	2.044165
hsa:5747	PTK2	IPI00012885	hsa:2268	FGR	IPI00016871	2.044165
hsa:5747	PTK2	IPI00012885	hsa:1445	CSK	IPI00013212	2.044165
hsa:5747	PTK2	IPI00012885	hsa:2534	FYN	IPI00219012	2.044165

hsa:5747	PTK2	IPI00012885	hsa:2885	GRB2	IPI00021327	2.044165
hsa:2185	PTK2B	IPI00029702	hsa:4145	MATK	IPI00000868	2.044165
hsa:5747	PTK2	IPI00012885	hsa:3932	LCK	IPI00394952	2.044165
hsa:2185	PTK2B	IPI00029702	hsa:3932	LCK	IPI00394952	2.044165
hsa:2185	PTK2B	IPI00029702	hsa:6714	SRC	IPI00641230	2.044165
hsa:5747	PTK2	IPI00012885	hsa:6714	SRC	IPI00641230	2.044165
hsa:2185	PTK2B	IPI00029702	hsa:4067	LYN	IPI00298625	2.044165
hsa:2185	PTK2B	IPI00029702	hsa:2534	FYN	IPI00219012	2.044165
hsa:2185	PTK2B	IPI00029702	hsa:2885	GRB2	IPI00021327	2.044165
hsa:2185	PTK2B	IPI00029702	hsa:1398	CRK	IPI00004838	2.044165
hsa:3572	IL6ST	IPI00297124	hsa:2064	ERBB2	IPI00300384	2.019617