

Supplement table 1 Potential targets of Rosmarinic acid by PharmaMapper

PDB ID	Uniplot	Num Feature	Fit	Norm Fit	Z score
1udw_v	Q9BZX2	14	6.018	0.4298	1.28326
1p60_v	DCK	9	5.119	0.5687	1.04913
5p21_v	RASH	15	5.02	0.3347	0.412644
1ekv_v	O15382	8	4.663	0.5829	3.93784
1db1_v	VDR	13	4.623	0.3556	1.24492
2dux_v	ALDR	12	4.533	0.3777	1.26303
1nb0_v	Q969G6	11	4.487	0.4079	1.78284
1jtv_v	P14061	8	4.483	0.5604	0.878525
1cbs_v	P29373	10	4.482	0.4482	0.403067
1t67_v	HDAC8	6	4.464	0.744	3.56174
1b0f_v	ELNE	9	4.345	0.4828	1.65395
1b55_v	BTK	12	4.344	0.362	1.57299
1unq_v	AKT1	12	4.332	0.361	2.03818
2pe1_v	PDPK1	7	4.305	0.6151	0.948726
1pgt_v	GSTP1	14	4.248	0.3035	0.552807
1zpb_v	FA11	8	4.213	0.5267	3.00491
1i44_v	INSR	8	4.186	0.5233	1.01807
1q3d_v	GSK3B	7	4.181	0.5972	2.03234
1q1z_v	O00204	10	4.177	0.4177	0.557438
1st0_v	Q96C86	10	4.177	0.4177	2.85451
1bnv_v	CAH2	7	4.143	0.5919	2.57249
1m4h_v	BACE1	18	4.136	0.2298	1.05651
1fkg_v	FKB1A	7	4.122	0.5889	2.49239
1kao_v	P10114	14	4.1	0.2928	0.560214
1pkw_v	P08263	9	4.084	0.4538	2.22608
1ipb_v	P06730	10	4.081	0.4081	1.55714
1bzy_v	P00492	12	4.075	0.3396	1.05195
2bel_v	DHI1	10	4.072	0.4072	1.36559
1ro6_v	PDE4B	5	4.07	0.814	3.32739
1ph0_v	PTN1	12	4.063	0.3386	2.58515
1h28_v	CCNA2	6	4.062	0.6771	2.5723
1biw_v	MMP3	8	4.043	0.5054	1.70066
1ad8_v	THRB	9	4.027	0.4475	1.79757
1e9d_v	KTHY	10	4.02	0.402	1.50382
3ewh_v	NONE	10	3.998	0.3998	1.61545
2jdv_v	P00517	8	3.981	0.4976	2.34795
1r1h_v	NEP	10	3.957	0.3957	0.208426
1gs4_v	ANDR	8	3.943	0.4929	1.06485
1jaq_v	MMP8	7	3.942	0.5631	3.10326
1r55_v	ADA33	10	3.931	0.3931	1.09332
1mc5_v	ADHX	7	3.921	0.5601	0.593645
1isj_v	BST1	7	3.915	0.5593	2.95056
1y2k_v	PDE4D	7	3.897	0.5568	1.65362
1yz3_v	PNMT	11	3.89	0.3537	1.20507
2bdj_v	SRC	6	3.89	0.6484	2.06578
1jv1_v	Q16222	12	3.887	0.3239	1.27828
1m48_v	IL2	7	3.886	0.5552	1.90309

1b3o_v	IMDH2	5	3.882	0.7763	2.58628
3kiv_v	APOA	5	3.881	0.7761	1.34992
1osf_v	HS90A	12	3.88	0.3233	0.780015
2hog_v	CHK1	6	3.874	0.6457	2.62786
1dug_v	FIBG	11	3.867	0.3515	0.876719
1awb_v	IMPA1	6	3.861	0.6435	0.48347
1nms_v	CASP3	10	3.86	0.386	1.08394
1hnl_v	P61626	8	3.86	0.4825	1.60441
1l6m_v	NGAL	4	3.856	0.9639	2.83074
1hi3_v	P10153	9	3.852	0.4279	1.23605
1l9n_v	TGM3	8	3.85	0.4813	0.82217
1efh_v	Q06520	11	3.846	0.3496	0.840279
1d2s_v	SHBG	8	3.843	0.4803	0.641958
3bbt_v	ERBB4	6	3.819	0.6365	2.01918
1y91_v	P24941	8	3.81	0.4763	1.2732
2fpy_v	PYRD	9	3.806	0.4229	0.741927
1wlj_v	ISG20	5	3.804	0.7608	2.14615
2bx8_v	ALBU	5	3.803	0.7607	1.88566
1men_v	PUR2	8	3.8	0.475	1.38977
1s9j_v	MP2K1	9	3.797	0.4219	0.450433
1h0c_v	SPYA	7	3.79	0.5414	1.53018
1tu6_v	CATK	9	3.786	0.4207	0.06255
1gw6_v	LKHA4	9	3.786	0.4206	1.30355
1imx_v	P01343	7	3.777	0.5396	1.50734
1cm0_v	Q92831	9	3.777	0.4196	2.19269
2can_v	OAT	10	3.773	0.3773	1.57164
1tdi_v	Q16772	9	3.769	0.4187	1.20739
1pbk_v	FKBP3	11	3.767	0.3425	2.01736
1q4x_v	P10828	9	3.765	0.4183	0.538007
2og8_v	LCK	11	3.759	0.3417	0.960124
1i7b_v	DCAM	8	3.757	0.4696	2.27498
1wt2_v	P16442	10	3.756	0.3756	1.10732
1wma_v	CBR1	5	3.753	0.7507	2.43605
3ccw_v	HMDH	8	3.753	0.4691	1.94955
1q0b_v	KIF11	10	3.742	0.3742	1.05704
1ihi_v	AK1C2	7	3.741	0.5345	0.36633
1ua2_v	P50613	8	3.741	0.4676	1.75809
1sd2_v	Q13126	7	3.73	0.5329	1.36029
3ens_v	P00742	8	3.73	0.4662	2.35209
1olm_v	O76054	10	3.729	0.3729	1.24667
1tft_v	XIAP	7	3.728	0.5326	2.12931
1p9a_v	P07359	8	3.727	0.4659	2.61236
3be2_v	P35968	8	3.723	0.4654	1.04522
1hna_v	GSTM2	10	3.722	0.3722	0.721598
1ig1_v	DAPK1	13	3.721	0.2862	0.225258
1p93_v	GCR	9	3.719	0.4132	1.34526
1o1v_v	FABP6	7	3.716	0.5308	0.846157
1jbq_v	P35520	7	3.715	0.5307	0.812328
1yvl_v	STAT1	8	3.714	0.4643	2.03818
1z6z_v	P35270	14	3.713	0.2652	1.03584
1ivh_v	P26440	12	3.708	0.309	1.45856

1rw8_v	TGFR1	6	3.703	0.6171	1.03672
1m76_v	Q16836	8	3.701	0.4626	1.84818
1r5g_v	AMPM2	9	3.697	0.4107	1.70751
2pog_v	ESR1	4	3.696	0.9239	1.91292
1m6d_v	Q9UBX1	7	3.694	0.5277	1.80937
1bmq_v	CASP1	11	3.691	0.3355	0.950014
1tfg_v	TGFB2	9	3.689	0.4098	0.888752
1drf_v	DYR	8	3.688	0.461	1.96919
1jj7_v	Q03518	11	3.687	0.3352	0.282806
1q11_v	P54577	5	3.687	0.7374	2.19643
1elv_v	C1S	6	3.686	0.6143	1.89237
1khe_v	P35558	12	3.685	0.3071	0.512929
1jqd_v	P50135	10	3.683	0.3683	0.957489
1hms_v	FABPH	8	3.682	0.4603	0.392714
1n6l_v	RAB5A	9	3.679	0.4088	1.40764
2qtu_v	Q92731	5	3.679	0.7358	2.12938
1kw0_v	PH4H	7	3.675	0.5251	1.40609
1xo2_v	CDK6	5	3.672	0.7343	1.9901
1nus_v	Q96T66	9	3.668	0.4076	1.0437
1lt8_v	Q93088	8	3.667	0.4584	1.32815
1yzg_v	Q9D4P0	11	3.664	0.3331	0.579663
1pq3_v	ARGI2	7	3.663	0.5233	2.02245
1yj6_v	GSTM1	9	3.662	0.4069	1.44056
1rne_v	RENI	10	3.658	0.3658	1.53099
1z6t_v	APAF	11	3.658	0.3325	0.326155
2f4j_v	P00519	8	3.656	0.457	1.27868
1r6u_v	P23381	9	3.653	0.4059	1.22282
1ry0_v	AK1C3	7	3.653	0.5219	0.127496
1nst_v	P52848	9	3.652	0.4058	1.06999
1og5_v	CP2C9	6	3.645	0.6074	1.57649
2ble_v	GMPR1	10	3.64	0.364	0.606787
1b1e_v	ANGI	5	3.637	0.7273	1.68424
1u32_v	P36873	11	3.63	0.33	0.424609
1h9u_v	RXRB	10	3.629	0.3629	0.1414
1g55_v	O14717	10	3.629	0.3629	1.0981
1gmy_v	CATB	9	3.627	0.403	0.924549
1hrk_v	P22830	8	3.627	0.4533	0.799872
1p4r_v	PUR9	9	3.625	0.4028	0.791203
1yxu_v	PIM1	4	3.625	0.9062	2.54975
1iyh_v	PTGD2	8	3.623	0.4529	1.32335
2a3i_v	MCR	6	3.614	0.6024	1.68885
1gzv_v	Q9HAN9	7	3.612	0.516	1.43547
1w0h_v	Q8IV48	10	3.61	0.361	0.24866
1k7l_v	PPARA	8	3.605	0.4506	1.19736
1xh0_v	AMYP	13	3.603	0.2771	1.90958
1sl4_v	CD209	8	3.598	0.4498	2.19193
1ls6_v	ST1A1	12	3.592	0.2993	0.217258
1nqc_v	CATS	7	3.588	0.5126	1.3129
1itu_v	DPEP1	8	3.587	0.4484	0.334606
1eem_v	GSTO1	8	3.582	0.4478	1.14627
1cm8_v	MK12	9	3.582	0.398	0.916768

1pr9_v	Q7Z4W1	10	3.58	0.358	1.89704
1c1y_v	RAF1	9	3.577	0.3974	0.852338
1dan_v	FA7	12	3.569	0.2974	0.493839
1uho_v	PDE5A	7	3.563	0.509	1.22185
2ojj_v	MK01	7	3.555	0.5079	1.08385
1nav_v	P10827	7	3.551	0.5072	0.635401
1t46_v	KIT	9	3.549	0.3944	0.636305
2oo8_v	TIE2	8	3.549	0.4436	0.609472
2c6q_v	Q9P2T1	10	3.54	0.354	0.618602
1ilh_v	NR1I2	8	3.54	0.4425	0.749754
1w83_v	Q16539	7	3.54	0.5057	0.857731
1qbk_v	RAN	11	3.532	0.3211	0.843705
1r5l_v	P49638	12	3.531	0.2943	-0.157916
1nsi_v	NOS2	9	3.53	0.3922	0.697628
1u59_v	ZAP70	7	3.53	0.5042	0.879404
1dxo_v	NQO1	6	3.528	0.588	1.17388
1xoi_v	P06737	7	3.528	0.504	0.712521
1liy_v	KPYR	10	3.528	0.3528	0.439146
1q91_v	Q9NPB1	9	3.524	0.3915	0.324426
1db4_v	P14555	8	3.518	0.4398	0.558591
1p5j_v	P20132	7	3.518	0.5025	0.679409
1w2c_v	P23677	9	3.517	0.3908	1.21832
1nue_v	NDKB	10	3.516	0.3516	0.402476
2b7a_v	JAK2	7	3.511	0.5016	0.715773
1ore_v	P07741	7	3.505	0.5007	0.973679
1djl_v	Q13423	9	3.502	0.3891	1.05969
1dnc_v	P00390	8	3.498	0.4373	0.911895
1pic_v	P85A	9	3.498	0.3886	1.09364
1mp8_v	FAK1	7	3.498	0.4996	0.646695
1sm2_v	Q08881	6	3.496	0.5827	0.843187
3f7i_v	Q96CA5	9	3.493	0.3882	1.01351
1rct_v	PNPH	5	3.489	0.6978	1.87496
3ljr_v	GSTT2	11	3.488	0.3171	-0.0805052
1i0z_v	P07195	8	3.488	0.436	1.36871
1uzf_v	ACE	7	3.485	0.4979	0.29428
1fw1_v	O43708	10	3.479	0.3479	0.649371
1jcn_v	IMDH1	7	3.478	0.4969	0.749099
3c4f_v	FGFR1	7	3.475	0.4964	0.964051
1ryf_v	RAC1	11	3.472	0.3157	0.229727
1nuh_v	G6PI	8	3.469	0.4336	0.417828
1k6m_v	P07953	11	3.467	0.3152	0.0195035
2c6c_v	FOLH1	8	3.457	0.4321	0.969655
1fro_v	LGUL	9	3.455	0.3839	0.677767
1hy3_v	ST1E1	8	3.455	0.4318	0.838471
1e2s_v	ARSA	6	3.454	0.5757	1.25595
1q5h_v	DUT	10	3.453	0.3453	0.049557
1m7b_v	P61587	10	3.452	0.3452	0.304284
2bu5_v	PDK2	6	3.451	0.5751	0.601349
2f2s_v	P24752	8	3.451	0.4313	1.4388
1z6x_v	P18085	8	3.448	0.431	0.627941
1a4r_v	CDC42	8	3.442	0.4302	0.517926

1li4_v	SAHH	6	3.439	0.5732	1.14504
2bxr_v	AOFA	13	3.437	0.2644	1.20569
1joc_v	Q15075	10	3.431	0.3431	0.119316
2rku_v	P53350	4	3.421	0.8551	1.55303
1ju6_v	TYSY	6	3.417	0.5695	1.22046
1u8e_v	DPP4	5	3.417	0.6833	1.58763
1mx9_v	EST1	5	3.416	0.6832	1.59818
1xjd_v	KPCT	7	3.416	0.488	0.512997
1nd5_v	PPAP	6	3.415	0.5691	0.639705
1pl6_v	DHSO	5	3.414	0.6829	0.827285
1bj4_v	GLYC	6	3.414	0.569	1.09102
1rlb_v	TTHY	10	3.413	0.3413	-0.356085
1kpf_v	HINT1	9	3.413	0.3792	0.0810985
1ek6_v	GALE	9	3.412	0.3791	0.896848
1s3x_v	P08107	7	3.407	0.4867	0.661608
1oth_v	P00480	8	3.402	0.4253	0.489633
1wms_v	P51151	9	3.398	0.3775	0.591071
4lbd_v	RARG	10	3.395	0.3395	0.298232
1nxk_v	P49137	7	3.391	0.4844	0.522425
1rm8_v	MMP16	8	3.39	0.4237	0.632678
1c9h_v	FKB1B	9	3.389	0.3766	1.19745
1ne7_v	P46926	7	3.388	0.4839	1.03333
1ca7_v	MIF	4	3.386	0.8465	1.41865
1g1t_v	LYAM2	9	3.376	0.3751	0.462869
3g3m_v	P11172	6	3.372	0.562	1.20107
2b4y_v	SIRT5	14	3.367	0.2405	0.0224246
1mq4_v	STK6	10	3.366	0.3366	-0.0461843
1z83_v	P00568	11	3.361	0.3055	0.472651
1qcf_v	HCK	7	3.356	0.4795	0.230886
1mqb_v	EPHA2	7	3.356	0.4794	0.778139
1jnk_v	MK10	12	3.355	0.2796	-0.0935628
1irj_v	S10A9	7	3.349	0.4785	0.674847
2aeb_v	ARG1	7	3.348	0.4783	0.36229
1v4s_v	HXK4	8	3.341	0.4176	0.173028
1upr_v	Q9H4M7	7	3.338	0.4769	0.732293
1w7n_v	KAT1	6	3.336	0.5561	0.708
1sr7_v	PRGR	8	3.323	0.4154	0.419754
1le6_v	O15496	4	3.32	0.8301	1.18088
1t31_v	CMA1	8	3.32	0.415	0.3731
1z57_v	CLK1	7	3.319	0.4741	0.748301
1gkd_v	MMP9	7	3.317	0.4739	0.543979
1s0x_v	RORA	10	3.313	0.3313	-0.0982565
1z6y_v	Q9Y689	9	3.313	0.3681	0.202742
1h1h_v	P12724	6	3.3	0.5499	0.709427
2fs8_v	TRYB2	8	3.294	0.4118	0.84229
1fm6_v	PPARG	4	3.293	0.8233	1.0015
1xts_v	Q62639	7	3.284	0.4692	0.975404
1qh5_v	Q16775	7	3.283	0.469	0.729827
1fls_v	MMP13	6	3.282	0.547	0.194417
1yq7_v	FPFS	8	3.277	0.4096	-0.279553
2zm3_v	IGF1R	6	3.273	0.5455	0.631925

1mq0_v	CDD	5	3.266	0.6533	1.15675
2p1u_v	RXRA	9	3.265	0.3628	0.131829
1x6v_v	O43252	7	3.265	0.4664	0.129389
2bk3_v	AOFB	7	3.26	0.4657	-0.337618
1mlw_v	TPH1	7	3.257	0.4653	0.190453
1ros_v	MMP12	10	3.254	0.3254	0.0509563
1lg1_v	Q13231	8	3.251	0.4063	0.55659
1gz4_v	MAOM	5	3.246	0.6493	0.227483
1dkf_v	RARA	8	3.246	0.4057	-0.0537564
1xkk_v	EGFR	9	3.241	0.3601	0.4463
1nrg_v	Q9NVS9	4	3.24	0.8101	0.84397
1hfc_v	P03956	8	3.237	0.4046	0.243603
2e2r_v	ERR3	5	3.234	0.6468	0.688864
3f82_v	P08581	11	3.225	0.2932	-0.293815
1yvj_v	JAK3	6	3.221	0.5369	0.197259
1x9d_v	Q9UKM7	7	3.204	0.4577	0.523615
1xil_v	P04179	5	3.189	0.6377	0.776971
1yb5_v	QOR	10	3.139	0.3139	0.722689
1a2b_v	P61586	6	3.125	0.5208	0.817488
1u4m_v	CCL5	8	3.12	0.39	0.402523
1iz2_v	A1AT	6	3.119	0.5199	0.276781
1t32_v	CATG	7	3.1	0.4429	-0.15553
3d2f_v	P32589	7	3.095	0.4422	0.280763
1xtj_v	Q13838	9	3.095	0.3439	-0.419675
1mfv_v	P04745	6	3.059	0.5099	0.429137
1lzf_v	Q9NY01	6	3.057	0.5096	0.511334
1smo_v	Q9NP99	6	3.033	0.5054	-0.218332
3bej_v	NR1H4	7	3.03	0.4329	-0.159834
1dia_v	P11586	6	3.025	0.5041	0.144979
3c4c_v	BRAF1	8	3.024	0.378	-0.485
1cza_v	HXK1	8	3.018	0.3773	-0.435473
1hti_v	TPIS	6	3.015	0.5025	-0.279898
1o6l_v	AKT2	7	3.002	0.4289	0.272611
2i47_v	ADA17	7	2.999	0.4284	-0.216471
1j78_v	VTDB	4	2.993	0.7481	-0.633348
1fe3_v	FABP7	7	2.99	0.4271	-0.795713
1hak_v	ANXA5	4	2.989	0.7473	-0.277221
1xap_v	RARB	9	2.988	0.332	-0.719493
1pq6_v	NR1H2	10	2.984	0.2984	-0.780303
2shp_v	PTN11	5	2.983	0.5966	-0.501093
1xbb_v	KSYK	6	2.982	0.497	-0.541154
1egc_v	ACADM	7	2.982	0.426	0.12316
1uki_v	MK08	3	2.981	0.9937	0.28923
1hov_v	MMP2	7	2.978	0.4254	-0.184539
1rs0_v	CFAB	3	2.977	0.9924	0.274248
1w6j_v	ERG7	5	2.977	0.5954	-0.0148019
1dic_v	CFAD	4	2.977	0.7441	0.331239
1wuu_v	GALK1	5	2.975	0.5951	0.197214