Supplementary Table 6. Core enrichment genes in GSEA enrichment pathway "RETINOL_METABOLISM(RNO00830)"

Name	Probe	Description < br > (from dataset)	Gene symbol	gene_ TITLE	Rank in gene list	Rank metric score	Running ES	Core enrichment
row_0	ENSRNOG00000014090	Retsat	Null	Null	656	0.592282	0.017753	No
row_1	ENSRNOG00000025608	Lrat	Null	Null	4516	0.379396	-0.0323	No
row_2	novel.5567	-	Null	Null	9036	0.290639	-0.09857	No
row_3	ENSRNOG00000026157	Pnpla4	Null	Null	9289	0.285498	-0.08886	No
row_4	ENSRNOG00000055049	Aldh1a2	Null	Null	9778	0.2755	-0.08387	No
row_5	ENSRNOG00000001379	Cyp3a62	Null	Null	11955	0.23067	-0.11126	No
row_6	ENSRNOG00000047745	AABR07035348.1	Null	Null	13208	0.207234	-0.12332	No
row_7	ENSRNOG00000056445	AABR07004530.1	Null	Null	13958	0.193409	-0.12707	No
row_8	ENSRNOG00000046357	Adh5	Null	Null	15053	0.173166	-0.138	No
row_9	ENSRNOG00000052810	Cyp2c11	Null	Null	16743	0.143462	-0.16103	No
row_10	ENSRNOG00000031529	Cyp2b12	Null	Null	16789	0.142468	-0.15475	No
row_11	ENSRNOG00000001973	Ugt2a3	Null	Null	19809	0.091293	-0.20413	No
row_12	ENSRNOG00000042714	RGD1559459	Null	Null	19855	0.090541	-0.20043	No
row_13	ENSRNOG00000000969	Cyp3a18	Null	Null	21949	0.054016	-0.23513	No
row_14	ENSRNOG00000054770	Rdh11	Null	Null	22718	0.040484	-0.24684	No
row_15	ENSRNOG00000020775	Cyp2b2	Null	Null	22739	0.040218	-0.24519	No
row_16	ENSRNOG00000006681	Rdh10	Null	Null	22795	0.039308	-0.24422	No
row_17	ENSRNOG00000008871	Sdr16c5	Null	Null	23040	0.035173	-0.24683	No
row_18	ENSRNOG00000053850	Rdh5	Null	Null	23174	0.032598	-0.24758	No
row_19	ENSRNOG00000032004	Cyp2b21	Null	Null	23278	0.030779	-0.24789	No
row_20	ENSRNOG00000028711	Dgat1	Null	Null	23320	0.030024	-0.24713	No
row_21	novel.20120	-	Null	Null	23497	0.02686	-0.24894	No
row_22	ENSRNOG00000001990	Ugt2b17	Null	Null	24155	0.015683	-0.25989	No
row_23	ENSRNOG00000056733	AABR07004539.1	Null	Null	24568	0.008456	-0.26683	No
row_24	ENSRNOG00000027919	Rdh13	Null	Null	25894	-0.01283	-0.28986	No
row_25	ENSRNOG00000060459	AC142154.2	Null	Null	26282	-0.01953	-0.2958	No
row_26	ENSRNOG00000062125	Aox3	Null	Null	27806	-0.0446	-0.32079	No
row_27	ENSRNOG00000030154	Cyp4a2	Null	Null	28337	-0.05344	-0.3276	No
row_28	ENSRNOG00000052070	Aldh1a3	Null	Null	29362	-0.07105	-0.34236	No
row_29	novel.6070	-	Null	Null	29427	-0.0722	-0.33991	No
row_30	ENSRNOG00000015736	Dhrs3	Null	Null	29545	-0.07418	-0.3383	No
row_31	ENSRNOG00000016750	Cyp26a1	Null	Null	30402	-0.08915	-0.34916	No
row_32	ENSRNOG00000047945	Cyp2c12	Null	Null	31530	-0.10891	-0.36387	No
row_33	ENSRNOG00000007758	LOC100362350	Null	Null	32411	-0.12404	-0.37342	No
row_34	ENSRNOG00000020801	Cyp2b15	Null	Null	32513	-0.12567	-0.36897	No
row_35	ENSRNOG00000004391	AABR07057436.1	Null	Null	32632	-0.12786	-0.36472	No
row_36	ENSRNOG00000021405	Cyp2c7	Null	Null	32837	-0.13162	-0.36181	No
row_37	ENSRNOG00000019500	Cyp1a1	Null	Null	33540	-0.14394	-0.36719	No
row_38	ENSRNOG00000018239	Dhrs4	Null	Null	33616	-0.14525	-0.3613	No
row_39	ENSRNOG00000009597	Cyp4a1	Null	Null	33760	-0.1477	-0.35651	No

(*Continued*)

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Supplementary Table 6. Core enrichment genes in GSEA enrichment pathway "RETINOL_METABOLISM(RNO00830)" (Continued)

Name	Probe	Description < br > (from dataset)	Gene symbol	gene_ TITLE	Rank in gene list	Rank metric score	Running ES	Core enrichment
row_40	ENSRNOG00000032959	Adh7	Null	Null	34342	-0.15746	-0.35905	No
row_41	ENSRNOG00000018740	Ugt1a1	Null	Null	34866	-0.16649	-0.36011	No
row_42	ENSRNOG00000013291	Cyp2c23	Null	Null	35067	-0.17031	-0.3552	No
row_43	ENSRNOG00000049464	Cyp2c13	Null	Null	38040	-0.22428	-0.39714	Yes
row_44	ENSRNOG00000015076	Cyp26b1	Null	Null	38085	-0.22501	-0.38672	Yes
row_45	ENSRNOG00000033164	Cyp2b3	Null	Null	38689	-0.2354	-0.38578	Yes
row_46	ENSRNOG00000009582	Rpe65	Null	Null	39103	-0.24278	-0.38108	Yes
row_47	ENSRNOG00000015354	Aox1	Null	Null	39213	-0.24486	-0.37084	Yes
row_48	ENSRNOG00000024016	Cyp2c6v1	Null	Null	39697	-0.25358	-0.36685	Yes
row_49	ENSRNOG00000008842	Cyp4a8	Null	Null	40152	-0.26217	-0.36192	Yes
row_50	ENSRNOG00000033923	Aox2	Null	Null	40389	-0.26637	-0.35288	Yes
row_51	ENSRNOG00000014555	Aox4	Null	Null	41226	-0.28212	-0.35377	Yes
row_52	ENSRNOG00000013241	Cyp2c24	Null	Null	41637	-0.28986	-0.34667	Yes
row_53	ENSRNOG00000062154	AABR07067810.1	Null	Null	42974	-0.30442	-0.35539	Yes
row_54	ENSRNOG00000020743	Cyp2s1	Null	Null	43310	-0.30985	-0.34596	Yes
row_55	ENSRNOG00000054930	AABR07004572.1	Null	Null	43349	-0.31071	-0.33118	Yes
row_56	ENSRNOG00000030698	Cyp26c1	Null	Null	43497	-0.31395	-0.31818	Yes
row_57	ENSRNOG00000012436	Adh1	Null	Null	43766	-0.31967	-0.30706	Yes
row_58	ENSRNOG00000016173	Cyp1a2	Null	Null	43945	-0.3232	-0.29416	Yes
row_59	ENSRNOG00000017619	Aldh1a1	Null	Null	44262	-0.32993	-0.28339	Yes
row_60	ENSRNOG00000058568	Dhrs9	Null	Null	44859	-0.34244	-0.27699	Yes
row_61	ENSRNOG00000017878	Aldh1a7	Null	Null	45993	-0.36622	-0.27901	Yes
row_62	ENSRNOG00000051770	Cyp2w1	Null	Null	47303	-0.39357	-0.28281	Yes
row_63	ENSRNOG00000042588	AC114845.1	Null	Null	47554	-0.39864	-0.26744	Yes
row_64	ENSRNOG00000009741	Cyp4a3	Null	Null	48652	-0.42115	-0.26608	Yes
row_65	ENSRNOG00000002597	Hsd17b6	Null	Null	49442	-0.43847	-0.25836	Yes
row_66	ENSRNOG00000020817	Cyp2a1	Null	Null	49575	-0.44148	-0.23875	Yes
row_67	ENSRNOG00000000978	AABR07035374.1	Null	Null	50484	-0.45924	-0.23211	Yes
row_68	ENSRNOG00000029651	Rdh16	Null	Null	50509	-0.46005	-0.20965	Yes
row_69	ENSRNOG00000003030	Awat2	Null	Null	50597	-0.46255	-0.18819	Yes
row_70	ENSRNOG00000025767	Rdh8	Null	Null	51654	-0.49542	-0.1824	Yes
row_71	ENSRNOG00000001980	Ugt2b35	Null	Null	51946	-0.50704	-0.16237	Yes
row_72	ENSRNOG00000059330	AABR07004549.1	Null	Null	53274	-0.55916	-0.15825	Yes
row_73	ENSRNOG00000046643	Cyp3a9	Null	Null	53627	-0.57572	-0.13589	Yes
row_74	ENSRNOG00000043320	LOC103691092	Null	Null	54009	-0.59706	-0.11299	Yes
row_75	ENSRNOG00000021924	Cyp2c22	Null	Null	54955	-0.67676	-0.09619	Yes
row_76	ENSRNOG00000012027	Bco1	Null	Null	55001	-0.68174	-0.06307	Yes
row_77	ENSRNOG00000046540	Ugt2b37	Null	Null	55259	-0.71701	-0.03198	Yes
row_78	ENSRNOG00000056553	Rdh12	Null	Null	55933	-0.92924	0.002233	Yes