

Supplementary Table 1: Enriched Gene Sets in Day 4 EBs

Pathway	Category	P-value	Adjusted P-value	Enrichment Score	Normalized Enrichment Score	Number	
						of Genes	Cluster
REACTOME_CELL_CYCLE_CHECKPOINTS	Cell Cycle	5.45E-05	0.000788244	0.46567326	1.971441955	128	D4_G1
REACTOME_REGULATION_OF_MITOTIC_CELL_CYCLE	Cell Cycle	5.63E-05	0.000788244	0.45058843	1.830132587	92	D4_G1
GO_CHROMOSOME_ORGANIZATION_INVOLVED_IN_MEIOTIC_CELL_CYCLE	Cell Cycle	0.005506467	0.038545268	0.50625106	1.703772172	32	D4_G1
GO_MEIOTIC_CELL_CYCLE_PROCESS	Cell Cycle	0.002152968	0.020094372	0.36231736	1.552069174	141	D4_G1
GO_NEGATIVE_REGULATION_OF_MITOTIC_CELL_CYCLE	Cell Cycle	0.007644197	0.019457957	-0.2855682	-1.4093868	231	D4_G2
GO_NEGATIVE_REGULATION_OF_CELL_CYCLE_G1_S_PHASE_TRANSITION	Cell Cycle	0.017468775	0.037059486	-0.3229518	-1.43916919	114	D4_G2
GO_CELL_CYCLE_G2_M_PHASE_TRANSITION	Cell Cycle	0.00225401	0.007889033	-0.3162915	-1.51716274	186	D4_G2
GO_NEGATIVE_REGULATION_OF_CELL_CYCLE_G2_M_PHASE_TRANSITION	Cell Cycle	0.018529743	0.037059486	-0.4677188	-1.58178502	30	D4_G2
GO_REGULATION_OF_CELL_CYCLE_G2_M_PHASE_TRANSITION	Cell Cycle	0.005949777	0.016659375	-0.3764523	-1.58182651	81	D4_G2
KEGG_CELL_CYCLE	Cell Cycle	0.00182704	0.007308161	-0.346759	-1.58843761	135	D4_G2
GO_MITOTIC_CELL_CYCLE_CHECKPOINT	Cell Cycle	0.000780776	0.003643619	-0.3486005	-1.64328832	165	D4_G2
GO_CHROMOSOME_ORGANIZATION_INVOLVED_IN_MEIOTIC_CELL_CYCLE	Cell Cycle	0.00952876	0.022233772	-0.4826906	-1.65680232	32	D4_G2
GO_NEGATIVE_REGULATION_OF_CELL_CYCLE_PHASE_TRANSITION	Cell Cycle	0.000520111	0.002912621	-0.3574413	-1.68916442	168	D4_G2
GO_REGULATION_OF_TRANSCRIPTION_INVOLVED_IN_G1_S_TRANSITION_OF_MITOTIC_CELL_CYCLE	Cell Cycle	0.003117153	0.009697809	-0.5281472	-1.78614866	30	D4_G2
GO_CELL_CYCLE_G1_S_PHASE_TRANSITION	Cell Cycle	8.75E-05	0.000612209	-0.4149157	-1.8811973	127	D4_G2
GO_G1_S_TRANSITION_OF_MITOTIC_CELL_CYCLE	Cell Cycle	8.75E-05	0.000612209	-0.4149157	-1.8811973	127	D4_G2
GO_CELL_CYCLE_CHECKPOINT	Cell Cycle	8.69E-05	0.000612209	-0.3996815	-1.97347098	232	D4_G2
GO_MEIOTIC_CELL_CYCLE_PROCESS	Cell Cycle	8.72E-05	0.000612209	-0.4387254	-2.02084814	141	D4_G2
GO_CHROMOSOME_ORGANIZATION_INVOLVED_IN_MEIOTIC_CELL_CYCLE	Cell Cycle	0.001339585	0.037508372	-0.5419175	-1.85527449	32	D4_G3
GO_CHROMOSOME_ORGANIZATION_INVOLVED_IN_MEIOTIC_CELL_CYCLE	Cell Cycle	7.89E-05	0.001104101	0.70441776	2.279458235	32	D4_G5
GO_MEIOTIC_CELL_CYCLE_PROCESS	Cell Cycle	6.22E-05	0.001104101	0.49993804	2.09038425	141	D4_G5
GO_CHROMOSOME_ORGANIZATION_INVOLVED_IN_MEIOTIC_CELL_CYCLE	Cell Cycle	6.13E-05	0.000858474	0.63814826	1.984245865	32	D4_G6
GO_MEIOTIC_CELL_CYCLE_PROCESS	Cell Cycle	5.16E-05	0.000858474	0.49903468	1.891554327	141	D4_G6
REACTOME_CELL_CYCLE_CHECKPOINTS	Cell Cycle	0.003737542	0.034883721	0.40037114	1.507452841	128	D4_G6
GO_REGULATION_OF_CELL_CYCLE_G2_M_PHASE_TRANSITION	Cell Cycle	0.020933977	0.045088567	-0.2771773	-1.44119544	81	D4_G7
GO_NEGATIVE_REGULATION_OF_CELL_CYCLE_PHASE_TRANSITION	Cell Cycle	0.013513514	0.031531532	-0.242006	-1.44515047	168	D4_G7
GO_REGULATION_OF_CELL_CYCLE_CHECKPOINT	Cell Cycle	0.012526096	0.031531532	-0.3865298	-1.70442986	41	D4_G7
GO_MITOTIC_CELL_CYCLE_CHECKPOINT	Cell Cycle	0.012345679	0.031531532	-0.3274735	-1.95457101	165	D4_G7
REACTOME_REGULATION_OF_MITOTIC_CELL_CYCLE	Cell Cycle	0.002207506	0.015452539	-0.3920548	-2.10494951	92	D4_G7
GO_NEGATIVE_REGULATION_OF_CELL_CYCLE_G2_M_PHASE_TRANSITION	Cell Cycle	0.001100514	0.01027146	-0.5372949	-2.17178803	30	D4_G7
GO_MEIOTIC_CELL_CYCLE_PROCESS	Cell Cycle	0.008196721	0.025500911	-0.4163729	-2.41657397	141	D4_G7
GO_CELL_CYCLE_G1_S_PHASE_TRANSITION	Cell Cycle	0.005681818	0.022857143	-0.4321796	-2.4658561	127	D4_G7
GO_G1_S_TRANSITION_OF_MITOTIC_CELL_CYCLE	Cell Cycle	0.005681818	0.022857143	-0.4321796	-2.4658561	127	D4_G7
KEGG_CELL_CYCLE	Cell Cycle	0.007042254	0.024647887	-0.4453025	-2.55231662	135	D4_G7
REACTOME_CELL_CYCLE_CHECKPOINTS	Cell Cycle	0.005714286	0.022857143	-0.468991	-2.67105827	128	D4_G7
GO_CHROMOSOME_ORGANIZATION_INVOLVED_IN_MEIOTIC_CELL_CYCLE	Cell Cycle	0.000394789	0.005527043	-0.6593934	-2.70895681	32	D4_G7
GO_REGULATION_OF_TRANSCRIPTION_INVOLVED_IN_G1_S_TRANSITION_OF_MITOTIC_CELL_CYCLE	Cell Cycle	0.000366838	0.005527043	-0.6725465	-2.71848583	30	D4_G7
GO_REGULATION_OF_CELL_CYCLE_CHECKPOINT	Cell Cycle	0.028847997	0.047514348	-0.3776023	-1.51344345	41	D4_G8
GO_POSITIVE_REGULATION_OF_MITOTIC_CELL_CYCLE	Cell Cycle	0.003649231	0.006386155	-0.2958439	-1.55447252	148	D4_G8
GO_NEGATIVE_REGULATION_OF_CELL_CYCLE_PHASE_TRANSITION	Cell Cycle	0.001455441	0.002716823	-0.2931759	-1.57337362	168	D4_G8
GO_CELL_CYCLE_G2_M_PHASE_TRANSITION	Cell Cycle	0.000455737	0.000981586	-0.3111729	-1.70087194	186	D4_G8
GO_REGULATION_OF_CELL_CYCLE_G2_M_PHASE_TRANSITION	Cell Cycle	0.001125665	0.00225133	-0.3674987	-1.72444445	81	D4_G8
REACTOME_REGULATION_OF_MITOTIC_CELL_CYCLE	Cell Cycle	0.000311494	0.00072682	-0.3647323	-1.75883837	92	D4_G8
GO_NEGATIVE_REGULATION_OF_MITOTIC_CELL_CYCLE	Cell Cycle	0.000117564	0.000329839	-0.3186096	-1.79940498	231	D4_G8
GO_MITOTIC_CELL_CYCLE_CHECKPOINT	Cell Cycle	0.000111309	0.000329839	-0.3520881	-1.88653163	165	D4_G8
KEGG_CELL_CYCLE	Cell Cycle	0.000216826	0.00055192	-0.3865567	-2.00297582	135	D4_G8
GO_CELL_CYCLE_CHECKPOINT	Cell Cycle	0.0001178	0.000329839	-0.3550583	-2.00526778	232	D4_G8
GO_CHROMOSOME_ORGANIZATION_INVOLVED_IN_MEIOTIC_CELL_CYCLE	Cell Cycle	9.38E-05	0.000329839	-0.5795041	-2.17426978	32	D4_G8

GO_NEGATIVE_REGULATION_OF_CELL_CYCLE_G2_M_PHASE_TRANSITION	Cell Cycle	9.35E-05	0.000329839	-0.5992764	-2.21313106	30	D4_G8
GO_REGULATION_OF_TRANSCRIPTION_INVOLVED_IN_G1_S_TRANSITION_OF_MITOTIC_CELL_CYCLE	Cell Cycle	9.35E-05	0.000329839	-0.6016363	-2.22184624	30	D4_G8
REACTOME_CELL_CYCLE_CHECKPOINTS	Cell Cycle	0.000107032	0.000329839	-0.4416701	-2.26592862	128	D4_G8
GO_CELL_CYCLE_G1_S_PHASE_TRANSITION	Cell Cycle	0.000107296	0.000329839	-0.458901	-2.34989563	127	D4_G8
GO_G1_S_TRANSITION_OF_MITOTIC_CELL_CYCLE	Cell Cycle	0.000107296	0.000329839	-0.458901	-2.34989563	127	D4_G8
GO_MEIOTIC_CELL_CYCLE_PROCESS	Cell Cycle	0.000109601	0.000329839	-0.4534328	-2.36529797	141	D4_G8
GO_BLASTOCYST_DEVELOPMENT	Development	0.004385185	0.010796437	0.43122112	1.633718552	60	D4_G1
GO_MORPHOGENESIS_OF_EMBRYONIC_EPITHELIUM	Development	0.017137097	0.035459206	-0.2215741	-1.28382687	178	D4_G1
GO_POSITIVE_REGULATION_OF_DEVELOPMENTAL_GROWTH	Development	0.010791367	0.02358338	-0.2250804	-1.33301155	202	D4_G1
GO_NEURAL_TUBE_DEVELOPMENT	Development	0.004329004	0.010726004	-0.2270135	-1.35633583	219	D4_G1
GO_MESODERM_DEVELOPMENT	Development	0.016254417	0.033994453	-0.2442873	-1.36511703	139	D4_G1
GO_POSITIVE_REGULATION_OF_CELL_MORPHOGENESIS_INVOLVED_IN_DIFFERENTIATION	Development	0.003539823	0.009059152	-0.2264707	-1.36852078	238	D4_G1
GO_REGULATION_OF_MUSCLE_CELL_DIFFERENTIATION	Development	0.002051282	0.005699634	-0.2393404	-1.38925409	180	D4_G1
GO_REGULATION_OF_MUSCLE_TISSUE_DEVELOPMENT	Development	0.011757022	0.025267853	-0.252281	-1.40178011	133	D4_G1
GO_GASTRULATION	Development	0.003456221	0.008903775	-0.239583	-1.40730548	195	D4_G1
GO_MAMMARY_GLAND_DEVELOPMENT	Development	0.004487659	0.010979241	-0.2520736	-1.41703846	145	D4_G1
GO_MAMMARY_GLAND_EPITHELIUM_DEVELOPMENT	Development	0.012841756	0.027297504	-0.2784469	-1.42385544	82	D4_G1
GO_NEUROEPITHELIAL_CELL_DIFFERENTIATION	Development	0.010429704	0.022921778	-0.2784032	-1.42993901	84	D4_G1
GO_OSTEOBLAST_DIFFERENTIATION	Development	0.002014099	0.005636578	-0.2469053	-1.43071911	177	D4_G1
GO_CARDIAC_MUSCLE_TISSUE_MORPHOGENESIS	Development	0.011184756	0.0241715	-0.281835	-1.44118057	82	D4_G1
GO_ENDOTHELIUM_DEVELOPMENT	Development	0.006550218	0.014814157	-0.265461	-1.44666354	115	D4_G1
GO_LUNG_MORPHOGENESIS	Development	0.0231467	0.046653193	-0.3033726	-1.4515022	58	D4_G1
GO_POSITIVE_REGULATION_OF_MUSCLE_CELL_DIFFERENTIATION	Development	0.00952381	0.021049784	-0.2808644	-1.46624985	93	D4_G1
GO_MESENCHYME_MORPHOGENESIS	Development	0.023532669	0.04718664	-0.3273156	-1.48990979	47	D4_G1
GO_VENTRICULAR_SEPTUM_DEVELOPMENT	Development	0.009376127	0.020841791	-0.3004701	-1.4926651	70	D4_G1
GO_CARDIAC_SEPTUM_DEVELOPMENT	Development	0.004872107	0.011771737	-0.2702983	-1.49469819	127	D4_G1
GO_CARDIAC_MUSCLE_TISSUE_DEVELOPMENT	Development	0.002118644	0.005845053	-0.2555068	-1.49742692	188	D4_G1
GO_VENTRICULAR_CARDIAC_MUSCLE_TISSUE_DEVELOPMENT	Development	0.005884516	0.013465158	-0.2999628	-1.49819846	72	D4_G1
GO_DENDRITE_DEVELOPMENT	Development	0.00266489	0.007100289	-0.2699189	-1.49876188	134	D4_G1
GO_BONE_DEVELOPMENT	Development	0.001219512	0.004198144	-0.2540735	-1.50604257	205	D4_G1
GO_CEREBRAL_CORTEX_DEVELOPMENT	Development	0.000859107	0.003341924	-0.2635168	-1.51236792	163	D4_G1
GO_SKIN_EPIDERMIS_DEVELOPMENT	Development	0.00539707	0.012647351	-0.3001644	-1.51426022	76	D4_G1
GO_MESODERM_MORPHOGENESIS	Development	0.006349206	0.014443516	-0.290145	-1.51469911	93	D4_G1
GO_CARDIAC_ATRIUM_DEVELOPMENT	Development	0.02247191	0.045767398	-0.3493363	-1.53118038	40	D4_G1
GO_COLUMNAR_CUBOIDAL_EPITHELIAL_CELL_DIFFERENTIATION	Development	0.001852996	0.005330687	-0.2781902	-1.53832703	128	D4_G1
GO_HINDBRAIN_DEVELOPMENT	Development	0.00125	0.004265351	-0.260256	-1.54276259	206	D4_G1
GO_HINDLIMB_MORPHOGENESIS	Development	0.018896834	0.03868878	-0.3534565	-1.54924002	40	D4_G1
GO_EMBRYONIC_PATTERN_SPECIFICATION	Development	0.004950495	0.0118873	-0.3054652	-1.55660425	81	D4_G1
GO_POSITIVE_REGULATION_OF_GLIAL_CELL_DIFFERENTIATION	Development	0.017976989	0.037000259	-0.3641742	-1.55707906	36	D4_G1
GO_REGULATION_OF_EPITHELIAL_CELL_DIFFERENTIATION	Development	0.002301496	0.006304802	-0.2872881	-1.57628402	121	D4_G1
GO_PHARYNGEAL_SYSTEM_DEVELOPMENT	Development	0.022648084	0.045885961	-0.3908056	-1.57769373	29	D4_G1
GO_PALLIUM_DEVELOPMENT	Development	0.001814882	0.005268575	-0.2614307	-1.58176341	241	D4_G1
GO_ENDOTHELIAL_CELL_DIFFERENTIATION	Development	0.003258845	0.008472968	-0.3006825	-1.58533111	96	D4_G1
GO_CRANIAL_SKELETAL_SYSTEM_DEVELOPMENT	Development	0.003041825	0.008049456	-0.3158469	-1.58742128	75	D4_G1
GO_POSITIVE_REGULATION_OF_EPITHELIAL_CELL_DIFFERENTIATION	Development	0.004691899	0.011407179	-0.3324556	-1.59065164	58	D4_G1
GO_FEMALE_SEX_DIFFERENTIATION	Development	0.001736111	0.005077799	-0.2891937	-1.59615281	123	D4_G1
GO_LIMBIC_SYSTEM_DEVELOPMENT	Development	0.000714286	0.003307823	-0.2845347	-1.59812469	142	D4_G1
GO_NEGATIVE_REGULATION_OF_DEVELOPMENTAL_GROWTH	Development	0.002006018	0.005636578	-0.2976219	-1.6046156	107	D4_G1
GO_EPITHELIAL_TUBE_BRANCHING_INVOLVED_IN_LUNG_MORPHOGENESIS	Development	0.013535589	0.02846132	-0.3879987	-1.61517436	33	D4_G1
GO_SMOOTH_MUSCLE_CELL_DIFFERENTIATION	Development	0.013089652	0.027673231	-0.3719707	-1.61607554	38	D4_G1
GO_OLFACTORY_LOBE_DEVELOPMENT	Development	0.005269321	0.012422823	-0.3466217	-1.62255016	53	D4_G1
GO_DEVELOPMENTAL_CELL_GROWTH	Development	0.001955034	0.005551156	-0.3049829	-1.63240925	103	D4_G1

GO DEVELOPMENTAL_GROWTH_INVOLVED_IN_MORPHOGENESIS	Development	0.000693963	0.003292091	-0.2920836	-1.63333897	138	D4_G1
GO ENDOCARDIAL_CUSHION_DEVELOPMENT	Development	0.0078125	0.017566835	-0.3628918	-1.637439	45	D4_G1
GO PERICARDIUM_DEVELOPMENT	Development	0.017070601	0.035459206	-0.4201528	-1.64065598	26	D4_G1
GO STEM_CELL_DIFFERENTIATION	Development	0.001519757	0.004688983	-0.2745166	-1.64389291	224	D4_G1
GO EXOCRINE_SYSTEM_DEVELOPMENT	Development	0.003753519	0.009543261	-0.3451531	-1.65140337	58	D4_G1
GO PATTERNING_OF_BLOOD_VESSELS	Development	0.001389854	0.004468209	-0.3366449	-1.65488309	67	D4_G1
GO GLAND_MORPHOGENESIS	Development	0.000609013	0.003149377	-0.2994547	-1.65592708	127	D4_G1
GO DENDRITE_MORPHOGENESIS	Development	0.002411576	0.00656016	-0.3267015	-1.6599421	79	D4_G1
GO ENDOCARDIAL_CUSHION_MORPHOGENESIS	Development	0.011064395	0.02404497	-0.4080164	-1.66195864	30	D4_G1
GO GLIAL_CELL_DEVELOPMENT	Development	0.001360544	0.004447493	-0.3190464	-1.66557903	93	D4_G1
GO NEGATIVE_REGULATION_OF_VASCULATURE_DEVELOPMENT	Development	0.001344086	0.004430928	-0.3199465	-1.66895472	92	D4_G1
GO GLANDULAR_EPITHELIAL_CELL_DIFFERENTIATION	Development	0.005737705	0.013206907	-0.369048	-1.67116488	46	D4_G1
GO CARDIAC_VENTRICLE_DEVELOPMENT	Development	0.000807103	0.003340031	-0.2931438	-1.67224709	156	D4_G1
GO CARDIAC_CHAMBER_DEVELOPMENT	Development	0.001333333	0.004430928	-0.2805075	-1.67320494	213	D4_G1
GO POSITIVE_REGULATION_OF_STEM_CELL_DIFFERENTIATION	Development	0.000724638	0.003316283	-0.3362803	-1.67814321	71	D4_G1
GO EMBRYONIC_CAMERA_TYPE_EYE_DEVELOPMENT	Development	0.004098361	0.01021963	-0.3595042	-1.68285362	53	D4_G1
GO SOMITE_DEVELOPMENT	Development	0.001504514	0.004682046	-0.3123213	-1.68386682	107	D4_G1
GO REGULATION_OF_GLIAL_CELL_DIFFERENTIATION	Development	0.001607717	0.004737893	-0.33151	-1.68437384	79	D4_G1
GO REGULATION_OF_TRANSCRIPTION_INVOLVED_IN_CELL_FATE_COMMITMENT	Development	0.012012645	0.025675378	-0.432266	-1.68795678	26	D4_G1
GO AORTA_DEVELOPMENT	Development	0.00088968	0.003416101	-0.3294272	-1.71481757	91	D4_G1
GO POST_EMBRYONIC_DEVELOPMENT	Development	0.000632511	0.003149377	-0.3107217	-1.71821142	130	D4_G1
GO RETINA_VASCULATURE_DEVELOPMENT_IN_CAMERA_TYPE_EYE	Development	0.005615234	0.013058178	-0.3996756	-1.72203091	37	D4_G1
GO MUSCLE_ORGAN_MORPHOGENESIS	Development	0.000486145	0.002988033	-0.3257515	-1.72855942	100	D4_G1
GO REGULATION_OF_BIOMINERAL_TISSUE_DEVELOPMENT	Development	0.001563966	0.004688983	-0.3617428	-1.73077741	58	D4_G1
GO HEART TRABECULA_MORPHOGENESIS	Development	0.005639522	0.013058178	-0.4224559	-1.73246337	31	D4_G1
GO COCHLEA_MORPHOGENESIS	Development	0.005055147	0.012064124	-0.4192239	-1.73399823	32	D4_G1
GO PERIPHERAL_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.0008285	0.003341924	-0.338108	-1.73551698	83	D4_G1
GO STEM_CELL_PROLIFERATION	Development	0.000406669	0.00287471	-0.3412114	-1.73672794	80	D4_G1
GO HYPOTHALAMUS_DEVELOPMENT	Development	0.008851423	0.019788525	-0.4453936	-1.73921893	26	D4_G1
GO ENDOCRINE_PANCREAS_DEVELOPMENT	Development	0.003877973	0.009732462	-0.3964067	-1.74768824	41	D4_G1
GO RETINA_MORPHOGENESIS_IN_CAMERA_TYPE_EYE	Development	0.000639591	0.003149377	-0.3637058	-1.74898405	60	D4_G1
GO MESENCHYMAL_CELL_DIFFERENTIATION	Development	0.000848896	0.003341924	-0.3062577	-1.75791172	162	D4_G1
GO OLIGODENDROCYTE_DEVELOPMENT	Development	0.002632272	0.007061749	-0.3956651	-1.76195115	43	D4_G1
GO CORPUS_CALLOSUM_DEVELOPMENT	Development	0.005164622	0.012250232	-0.4418086	-1.76376506	28	D4_G1
GO NEURAL_CREST_CELL_DIFFERENTIATION	Development	0.000896057	0.003416101	-0.3387564	-1.76707381	92	D4_G1
GO POST_ANAL_TAIL_MORPHOGENESIS	Development	0.003835091	0.00968734	-0.4155367	-1.7766867	36	D4_G1
GO EMBRYONIC_CRANIAL_SKELETON_MORPHOGENESIS	Development	0.00033557	0.00287471	-0.3645171	-1.77758652	64	D4_G1
GO GLOMERULUS_DEVELOPMENT	Development	0.000367782	0.00287471	-0.356155	-1.77885685	72	D4_G1
GO REGULATION_OF_OLIGODENDROCYTE_DIFFERENTIATION	Development	0.003074013	0.008079669	-0.4204591	-1.78339298	35	D4_G1
GO MESONEPHROS_DEVELOPMENT	Development	0.000488759	0.002988033	-0.3345401	-1.79061299	103	D4_G1
GO BONE_MORPHOGENESIS	Development	0.000922084	0.003416101	-0.3418171	-1.79620892	95	D4_G1
GO REGULATION_OF_KIDNEY_DEVELOPMENT	Development	0.000921376	0.003416101	-0.3790736	-1.79720147	56	D4_G1
GO MESENCHYME_DEVELOPMENT	Development	0.001381215	0.004468209	-0.3011815	-1.7974261	215	D4_G1
GO ASTROCYTE_DIFFERENTIATION	Development	0.000851305	0.003341924	-0.3938809	-1.80893802	49	D4_G1
GO EMBRYONIC_FORELIMB_MORPHOGENESIS	Development	0.003267211	0.008472968	-0.4351596	-1.81149769	33	D4_G1
GO MORPHOGENESIS_OF_AN_EPITHELIAL_SHEET	Development	0.000394633	0.00287471	-0.3571805	-1.81236796	78	D4_G1
GO REGULATION_OF_CHONDROCYTE_DIFFERENTIATION	Development	0.000851305	0.003341924	-0.3950238	-1.81418662	49	D4_G1
GO PANCREAS_DEVELOPMENT	Development	0.00041425	0.00287471	-0.3553846	-1.81728108	82	D4_G1
GO NEURAL_RETINA_DEVELOPMENT	Development	0.000339213	0.00287471	-0.3704916	-1.81919782	66	D4_G1
GO POSITIVE_REGULATION_OF_MESENCHYMAL_CELL_PROLIFERATION	Development	0.001863685	0.005330687	-0.4073945	-1.82551309	44	D4_G1
GO FOREBRAIN_NEURON_DEVELOPMENT	Development	0.000316356	0.00287471	-0.3818979	-1.83181132	59	D4_G1
GO OUTFLOW_TRACT_MORPHOGENESIS	Development	0.000401929	0.00287471	-0.3621351	-1.83997729	79	D4_G1

GO_APPENDAGE_DEVELOPMENT	Development	0.001472754	0.004620172	-0.3082932	-1.84863037	223	D4_G1
GO_LIMB_DEVELOPMENT	Development	0.001472754	0.004620172	-0.3082932	-1.84863037	223	D4_G1
GO_MESONEPHRIC_TUBULE_MORPHOGENESIS	Development	0.000325839	0.00287471	-0.3821511	-1.85258052	62	D4_G1
GO_BRANCHING_INVOLVED_IN_URETERIC_BUD_MORPHOGENESIS	Development	0.000307125	0.00287471	-0.391215	-1.85476431	56	D4_G1
GO_PITUITARY_GLAND_DEVELOPMENT	Development	0.000571265	0.00308642	-0.4018588	-1.85488902	50	D4_G1
GO_MORPHOGENESIS_OF_A_BRANCHING_STRUCTURE	Development	0.001574803	0.004688983	-0.3097647	-1.86123297	229	D4_G1
GO_THYROID_GLAND_DEVELOPMENT	Development	0.002570143	0.006942957	-0.4745749	-1.87406783	27	D4_G1
GO_CARDIAC_CHAMBER_MORPHOGENESIS	Development	0.000768049	0.003319679	-0.3349965	-1.88838571	148	D4_G1
GO_HEART_VALVE_DEVELOPMENT	Development	0.000766088	0.003319679	-0.4324116	-1.89530911	40	D4_G1
GO_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION	Development	0.000653168	0.003176029	-0.3420328	-1.90047918	133	D4_G1
GO_ARTERY_DEVELOPMENT	Development	0.000617665	0.003149377	-0.3448468	-1.90692258	128	D4_G1
GO_NEGATIVE_REGULATION_OF_GLIAL_CELL_DIFFERENTIATION	Development	0.001579066	0.004688983	-0.4651135	-1.9073994	31	D4_G1
GO_DIGESTIVE_TRACT_MORPHOGENESIS	Development	0.000368189	0.00287471	-0.3806957	-1.91019497	73	D4_G1
GO_CELL_DIFFERENTIATION_IN_HINDBRAIN	Development	0.000705716	0.003307514	-0.4548483	-1.91360433	34	D4_G1
GO_NERVE_DEVELOPMENT	Development	0.000505306	0.002988033	-0.3550214	-1.9162551	108	D4_G1
GO_LUNG_CELL_DIFFERENTIATION	Development	0.00130662	0.004412432	-0.4774221	-1.9273674	29	D4_G1
GO_EMBRYONIC_DIGESTIVE_TRACT_DEVELOPMENT	Development	0.00052233	0.002988033	-0.4373642	-1.93613744	42	D4_G1
GO_LUNG_ALVEOLUS_DEVELOPMENT	Development	0.000285633	0.00287471	-0.422048	-1.94807787	50	D4_G1
GO_REGULATION_OF_CARTILAGE_DEVELOPMENT	Development	0.00033557	0.00287471	-0.401502	-1.95794525	64	D4_G1
GO_METANEPHROS_MORPHOGENESIS	Development	0.001127904	0.00398868	-0.4776204	-1.95868939	31	D4_G1
GO_CARDIAC_SEPTUM_MORPHOGENESIS	Development	0.000323206	0.00287471	-0.4057619	-1.96050464	61	D4_G1
GO_BRANCHING_MORPHOGENESIS_OF_AN_EPITHELIAL_TUBE	Development	0.001203369	0.00417956	-0.3315128	-1.96320646	203	D4_G1
GO_LENS_DEVELOPMENT_IN_CAMERA_TYPE_EYE	Development	0.000412541	0.00287471	-0.38597	-1.96684438	81	D4_G1
GO_CARDIAC_VENTRICLE_MORPHOGENESIS	Development	0.000472367	0.002988033	-0.3716569	-1.96749487	98	D4_G1
GO_COCHLEA_DEVELOPMENT	Development	0.000323206	0.00287471	-0.4072103	-1.9675027	61	D4_G1
GO_RETINA_DEVELOPMENT_IN_CAMERA_TYPE_EYE	Development	0.001038422	0.003740241	-0.3406478	-1.97865952	181	D4_G1
GO_SKELETAL_MUSCLE_ORGAN_DEVELOPMENT	Development	0.000768049	0.003319679	-0.3527109	-1.98824243	148	D4_G1
GO_PARASYMPATHETIC_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.000229779	0.00287471	-0.4807908	-1.98865208	32	D4_G1
GO_DIENCEPHALON_DEVELOPMENT	Development	0.0004662	0.002988033	-0.376506	-1.98909434	97	D4_G1
GO_NOTOCHORD_DEVELOPMENT	Development	0.000538793	0.003037544	-0.4410361	-1.99004144	45	D4_G1
GO_CAMERA_TYPE_EYE_MORPHOGENESIS	Development	0.000747943	0.003319679	-0.3540383	-1.99023563	145	D4_G1
GO_REGULATION_OF_MESONEPHROS_DEVELOPMENT	Development	0.001038422	0.003740241	-0.5170455	-1.99233355	25	D4_G1
GO_POSITIVE_REGULATION_OF_STEM_CELL_PROLIFERATION	Development	0.000406669	0.00287471	-0.3955672	-2.01339315	80	D4_G1
GO_PALATE_DEVELOPMENT	Development	0.000598444	0.003145875	-0.3651924	-2.01369837	125	D4_G1
GO_BONE TRABECULA_MORPHOGENESIS	Development	0.000229779	0.00287471	-0.4887904	-2.02173989	32	D4_G1
GO_POSITIVE_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION	Development	0.000339213	0.00287471	-0.4126739	-2.0263223	66	D4_G1
GO_POSITIVE_REGULATION_OF_KIDNEY_DEVELOPMENT	Development	0.000258532	0.00287471	-0.4603144	-2.02944644	41	D4_G1
GO_GLIAL_CELL_DIFFERENTIATION	Development	0.00094162	0.003455566	-0.3515655	-2.02947189	171	D4_G1
GO_AORTA_MORPHOGENESIS	Development	0.000283768	0.00287471	-0.4425444	-2.03243009	49	D4_G1
GO TRABECULA_MORPHOGENESIS	Development	0.000347464	0.00287471	-0.4141122	-2.03569756	67	D4_G1
GO_KIDNEY_MORPHOGENESIS	Development	0.00044484	0.002932927	-0.3912156	-2.03645422	91	D4_G1
GO_REGULATION_OF_ASTROCYTE_DIFFERENTIATION	Development	0.000255363	0.00287471	-0.4652982	-2.03945458	40	D4_G1
GO_KIDNEY_EPITHELIUM_DEVELOPMENT	Development	0.00082713	0.003341924	-0.35959	-2.05049584	158	D4_G1
GO_FORELIMB_MORPHOGENESIS	Development	0.000246975	0.00287471	-0.4725375	-2.05300144	38	D4_G1
GO_REGULATION_OF_STEM_CELL_PROLIFERATION	Development	0.000501505	0.002988033	-0.3818581	-2.05877122	107	D4_G1
GO_PROXIMAL_DISTAL_PATTERN_FORMATION	Development	0.000233372	0.00287471	-0.499692	-2.08013519	33	D4_G1
GO_REGULATION_OF_MESENCHYMAL_CELL_PROLIFERATION	Development	0.0002918	0.00287471	-0.4469294	-2.08232734	52	D4_G1
GO_LENS_FIBER_CELL_DIFFERENTIATION	Development	0.000250438	0.00287471	-0.4781448	-2.08971863	39	D4_G1
GO_POSITIVE_REGULATION_OF_CARTILAGE_DEVELOPMENT	Development	0.000225581	0.00287471	-0.5098173	-2.09072697	31	D4_G1
GO_EYE_MORPHOGENESIS	Development	0.001158749	0.00406084	-0.3567995	-2.10062781	197	D4_G1
GO_DIGESTIVE_SYSTEM_DEVELOPMENT	Development	0.001076426	0.003841558	-0.3597715	-2.10470295	189	D4_G1
GO_ENDOCRINE_SYSTEM_DEVELOPMENT	Development	0.000630517	0.003149377	-0.3809927	-2.10752486	129	D4_G1

GO CENTRAL_NERVOUS_SYSTEM_NEURON_DEVELOPMENT	Development	0.000585823	0.003121715	-0.3867654	-2.13000916	124	D4_G1
GO SPINAL_CORD_PATTERNING	Development	0.000442576	0.002932927	-0.5267593	-2.1456301	30	D4_G1
GO INNER_EAR_MORPHOGENESIS	Development	0.000763942	0.003319679	-0.3790919	-2.14744203	149	D4_G1
GO NEPHRON_EPITHELIUM_DEVELOPMENT	Development	0.000517866	0.002988033	-0.3964073	-2.15422876	111	D4_G1
GO CRANIAL_NERVE_DEVELOPMENT	Development	0.000394633	0.00287471	-0.4264439	-2.16381717	78	D4_G1
GO CARTILAGE_DEVELOPMENT_INVOLVED_IN_ENDOCHONDRAL_BONE_MORPHOGENESIS	Development	0.000214179	0.00287471	-0.548728	-2.16689418	27	D4_G1
GO ANTERIOR_POSTERIOR_PATTERN_SPECIFICATION	Development	0.001547988	0.004688983	-0.3603646	-2.16691398	28	D4_G1
GO ENDOCHONDRAL_BONE_MORPHOGENESIS	Development	0.000307125	0.00287471	-0.4585437	-2.17397195	56	D4_G1
GO LUNG_EPITHELIUM_DEVELOPMENT	Development	0.000246975	0.00287471	-0.5006035	-2.17493784	38	D4_G1
GO SKELETAL_MUSCLE_CELL_DIFFERENTIATION	Development	0.000312793	0.00287471	-0.4546943	-2.17550915	58	D4_G1
GO EMBRYONIC_CAMERA_TYPE_EYE_MORPHOGENESIS	Development	0.000255363	0.00287471	-0.4973989	-2.18015583	40	D4_G1
GO LENS_MORPHOGENESIS_IN_CAMERA_TYPE_EYE	Development	0.000235239	0.00287471	-0.5188999	-2.1830773	34	D4_G1
GO ARTERY_MORPHOGENESIS	Development	0.000412541	0.00287471	-0.4294175	-2.18824581	81	D4_G1
GO NEPHRON_DEVELOPMENT	Development	0.000780031	0.003334419	-0.3872835	-2.19841789	151	D4_G1
GO SMOOTH_MUSCLE_TISSUE_DEVELOPMENT	Development	0.000250438	0.00287471	-0.5041699	-2.20346047	39	D4_G1
GO DORSAL_VENTRAL_PATTERN_FORMATION	Development	0.000549451	0.003053375	-0.4051565	-2.21049014	116	D4_G1
GO CELL_FATE_SPECIFICATION	Development	0.000412541	0.00287471	-0.4345385	-2.21434205	81	D4_G1
GO SKELETAL_SYSTEM_MORPHOGENESIS	Development	0.001424501	0.004542058	-0.3742766	-2.23625611	218	D4_G1
GO EMBRYONIC_EYE_MORPHOGENESIS	Development	0.000285633	0.00287471	-0.4901145	-2.26225741	50	D4_G1
GO CRANIAL_NERVE_MORPHOGENESIS	Development	0.000280741	0.00287471	-0.5005466	-2.28514076	48	D4_G1
GO EAR_MORPHOGENESIS	Development	0.000912409	0.003416101	-0.3968674	-2.28728296	169	D4_G1
GO SYMPATHETIC_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.000239693	0.00287471	-0.5418744	-2.31686195	36	D4_G1
GO METANEPHRIC_NEPHRON_DEVELOPMENT	Development	0.000225581	0.00287471	-0.5708976	-2.34121321	31	D4_G1
GO VENTRICULAR_SEPTUM_MORPHOGENESIS	Development	0.000246975	0.00287471	-0.5393887	-2.34344547	38	D4_G1
GO CONNECTIVE_TISSUE_DEVELOPMENT	Development	0.001315789	0.004412432	-0.3965337	-2.36130187	211	D4_G1
GO CELL_FATE_COMMITMENT	Development	0.001574803	0.004688983	-0.3936752	-2.36541193	229	D4_G1
GO POSITIVE_REGULATION_OF_BIOMINERAL_TISSUE_DEVELOPMENT	Development	0.000235239	0.00287471	-0.5648245	-2.37628772	34	D4_G1
GO SPINAL_CORD_MOTOR_NEURON_DIFFERENTIATION	Development	0.000269397	0.00287471	-0.5329133	-2.40460902	45	D4_G1
GO CHONDROCYTE_DIFFERENTIATION	Development	0.000385505	0.00287471	-0.4785623	-2.41423657	76	D4_G1
GO METANEPHROS_DEVELOPMENT	Development	0.00042123	0.00287471	-0.4732913	-2.43736923	85	D4_G1
GO CHONDROCYTE_DEVELOPMENT	Development	0.000244141	0.00287471	-0.5680776	-2.44760309	37	D4_G1
GO OTIC_VESICLE_DEVELOPMENT	Development	0.000235239	0.00287471	-0.585213	-2.46206472	34	D4_G1
GO CARTILAGE_DEVELOPMENT	Development	0.000803213	0.003340031	-0.4345368	-2.47551523	155	D4_G1
GO OLIGODENDROCYTE_DIFFERENTIATION	Development	0.000401929	0.00287471	-0.4958826	-2.51953698	79	D4_G1
GO VENTRAL_SPINAL_CORD_DEVELOPMENT	Development	0.000323206	0.00287471	-0.5369827	-2.59451924	61	D4_G1
GO SPINAL_CORD_DEVELOPMENT	Development	0.000693963	0.003292091	-0.4649154	-2.59981849	138	D4_G1
GO RENAL_TUBULE_DEVELOPMENT	Development	0.000516529	0.002988033	-0.4824414	-2.60723623	109	D4_G1
GO EMBRYONIC_SKELETAL_SYSTEM_MORPHOGENESIS	Development	0.000569801	0.00308642	-0.4814597	-2.637356	120	D4_G1
GO MIDDLE_EAR_MORPHOGENESIS	Development	0.000210748	0.00287471	-0.6781318	-2.64803923	26	D4_G1
GO AUTONOMIC_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.000312793	0.00287471	-0.5590963	-2.67502581	58	D4_G1
GO EMBRYONIC_SKELETAL_SYSTEM_DEVELOPMENT	Development	0.000793651	0.003340031	-0.4837971	-2.75252443	154	D4_G1
GO CELL_DIFFERENTIATION_IN_SPINAL_CORD	Development	0.000360101	0.00287471	-0.5600251	-2.76646843	69	D4_G1
GO NEURON_FATE_SPECIFICATION	Development	0.000236463	0.00287471	-0.668053	-2.83357163	35	D4_G1
GO NEURON_FATE_COMMITMENT	Development	0.000388651	0.00287471	-0.5868016	-2.96682878	77	D4_G1
GO ENDODERM_DEVELOPMENT	Development	0.000116333	0.00076617	0.64534528	2.814554855	92	D4_G2
GO SPECIFICATION_OF_SYMMETRY	Development	0.000117178	0.00076617	0.54387093	2.594021059	159	D4_G2
GO GASTRULATION	Development	0.000116918	0.00076617	0.52149005	2.559571627	195	D4_G2
GO MESONEPHROS_DEVELOPMENT	Development	0.000115808	0.00076617	0.57349993	2.553109966	103	D4_G2
GO REGULATION_OF_HEART_MORPHOGENESIS	Development	0.00011655	0.00076617	0.70233218	2.551354751	37	D4_G2
GO ENDODERMAL_CELL_DIFFERENTIATION	Development	0.000116469	0.00076617	0.62629373	2.505575624	58	D4_G2
GO BRANCHING_INVOLVED_IN_SALIVARY_GLAND_MORPHOGENESIS	Development	0.000116618	0.00076617	0.72982423	2.440393428	26	D4_G2
GO POSITIVE_REGULATION_OF_EPITHELIAL_TO_MESENCHYMAL_TRANSITION	Development	0.000115848	0.00076617	0.6133478	2.4388442	56	D4_G2

GO_ANTERIOR_POSTERIOR_AXIS_SPECIFICATION	Development	0.000116469	0.00076617	0.60878964	2.435548062	58	D4_G2
GO_EXOCRINE_SYSTEM_DEVELOPMENT	Development	0.000116469	0.00076617	0.60678307	2.427520468	58	D4_G2
GO_MESENCHYMAL_CELL_DIFFERENTIATION	Development	0.000117096	0.00076617	0.50545143	2.415527773	162	D4_G2
GO_MESENCHYME_DEVELOPMENT	Development	0.000116932	0.00076617	0.48451779	2.411144982	215	D4_G2
GO_SALIVARY_GLAND_DEVELOPMENT	Development	0.000115861	0.00076617	0.63013531	2.401670022	46	D4_G2
GO_MORPHOGENESIS_OF_A_BRANCHING_STRUCTURE	Development	0.000117467	0.00076617	0.4757903	2.387272403	229	D4_G2
GO_STEM_CELL_DIFFERENTIATION	Development	0.000116959	0.00076617	0.47204456	2.36315776	224	D4_G2
GO_MESONEPHRIC_TUBULE_MORPHOGENESIS	Development	0.000115473	0.00076617	0.58129045	2.361856936	62	D4_G2
GO_REGULATION_OF_EPITHELIAL_TO_MESENCHYMAL_TRANSITION	Development	0.000115567	0.00076617	0.51659566	2.359071098	120	D4_G2
GO_EPITHELIAL_TO_MESENCHYMAL_TRANSITION	Development	0.000115035	0.00076617	0.56062922	2.358517422	74	D4_G2
GO_REGULATION_OF_STEM_CELL_DIFFERENTIATION	Development	0.000116809	0.00076617	0.48582467	2.348309936	174	D4_G2
GO_REGULATION_OF_KIDNEY_DEVELOPMENT	Development	0.000231696	0.001052062	0.58851511	2.340102398	56	D4_G2
GO_EMBRYONIC_HEART_TUBE_DEVELOPMENT	Development	0.000115554	0.00076617	0.54017676	2.328822003	86	D4_G2
GO_CARDIAC_EPITHELIAL_TO_MESENCHYMAL_TRANSITION	Development	0.000118175	0.00076617	0.67731423	2.315946212	29	D4_G2
GO_NEPHRON_DEVELOPMENT	Development	0.000117014	0.00076617	0.48209791	2.279893971	151	D4_G2
GO_CARDIAC_MUSCLE_TISSUE_MORPHOGENESIS	Development	0.00011562	0.00076617	0.53172847	2.272847221	82	D4_G2
GO_POSITIVE_REGULATION_OF_STEM_CELL_DIFFERENTIATION	Development	0.000115861	0.00076617	0.5424494	2.26268499	71	D4_G2
GO_AXIS_SPECIFICATION	Development	0.000115754	0.00076617	0.50030153	2.238027237	106	D4_G2
GO_BRANCHING_MORPHOGENESIS_OF_AN_EPITHELIAL_TUBE	Development	0.000116469	0.00076617	0.45226926	2.233680106	203	D4_G2
GO_POSITIVE_REGULATION_OF_KIDNEY_DEVELOPMENT	Development	0.000116252	0.00076617	0.60101089	2.231877536	41	D4_G2
GO_CARDIAC_CHAMBER_MORPHOGENESIS	Development	0.000116932	0.00076617	0.47299831	2.230701236	148	D4_G2
GO_KIDNEY_MORPHOGENESIS	Development	0.000115982	0.00076617	0.51168052	2.23051208	91	D4_G2
GO_BODY_MORPHOGENESIS	Development	0.000115687	0.00076617	0.53493208	2.226352885	70	D4_G2
GO_GLOMERULUS_DEVELOPMENT	Development	0.000115754	0.00076617	0.53028128	2.218665754	72	D4_G2
GO_HEAD_MORPHOGENESIS	Development	0.000231214	0.001052062	0.54716215	2.207585475	60	D4_G2
GO_MESENCHYME_MORPHOGENESIS	Development	0.00023291	0.001052062	0.57288884	2.193556105	47	D4_G2
GO_EMBRYONIC_HEART_TUBE_MORPHOGENESIS	Development	0.000115393	0.00076617	0.5182787	2.193499148	77	D4_G2
GO_KIDNEY_EPITHELIUM_DEVELOPMENT	Development	0.000117151	0.00076617	0.45922484	2.187896346	158	D4_G2
GO_METANEPHROS_DEVELOPMENT	Development	0.000115433	0.00076617	0.50625384	2.177556612	85	D4_G2
GO_REGULATION_OF_MORPHOGENESIS_OF_A_BRANCHING_STRUCTURE	Development	0.000232477	0.001052062	0.55389213	2.176572037	53	D4_G2
GO_BIOMINERAL_TISSUE_DEVELOPMENT	Development	0.000115754	0.00076617	0.51810781	2.16773268	72	D4_G2
GO_NEGATIVE_REGULATION_OF_STEM_CELL_DIFFERENTIATION	Development	0.000231374	0.001052062	0.52012467	2.164725405	70	D4_G2
GO_EPIDERMIS_MORPHOGENESIS	Development	0.000117994	0.00076617	0.62413872	2.164685875	31	D4_G2
GO_NEGATIVE_REGULATION_OF_EPITHELIAL_TO_MESENCHYMAL_TRANSITION	Development	0.000115433	0.00076617	0.57275308	2.162985138	44	D4_G2
GO_POSITIVE_REGULATION_OF_EMBRYONIC_DEVELOPMENT	Development	0.000116469	0.00076617	0.58477801	2.150248184	39	D4_G2
GO_EMBRYONIC_PATTERN_SPECIFICATION	Development	0.000230574	0.001052062	0.50267693	2.147043474	81	D4_G2
GO_SKIN_EPIDERMIS_DEVELOPMENT	Development	0.000115128	0.00076617	0.5069737	2.143465422	76	D4_G2
GO_SMOOTH_MUSCLE_CELL_DIFFERENTIATION	Development	0.000233182	0.001052062	0.58305752	2.13128507	38	D4_G2
GO_REGULATION_OF_EMBRYONIC_DEVELOPMENT	Development	0.000116877	0.00076617	0.44835988	2.123797432	152	D4_G2
GO_NEGATIVE_REGULATION_OF_VASCULATURE_DEVELOPMENT	Development	0.000232666	0.001052062	0.48006513	2.093715855	92	D4_G2
GO_OTIC_VESICLE_DEVELOPMENT	Development	0.00046811	0.001820948	0.58878782	2.089615536	34	D4_G2
GO_RETINA_VASCULATURE_DEVELOPMENT_IN_CAMERA_TYPE_EYE	Development	0.00034965	0.001397836	0.57499447	2.088776386	37	D4_G2
GO_DIGESTIVE_SYSTEM_DEVELOPMENT	Development	0.000116891	0.00076617	0.42476721	2.076860949	189	D4_G2
GO_MESODERM_MORPHOGENESIS	Development	0.00023175	0.001052062	0.47382452	2.071599328	93	D4_G2
GO_RENAL_TUBULE_DEVELOPMENT	Development	0.000115942	0.00076617	0.45911073	2.064750157	109	D4_G2
GO_PATTERNING_OF_BLOOD_VESSELS	Development	0.000230574	0.001052062	0.49882547	2.061306408	67	D4_G2
GO_MESODERM_DEVELOPMENT	Development	0.000116036	0.00076617	0.43902854	2.052886724	139	D4_G2
GO_REGULATION_OF_GASTRULATION	Development	0.000232477	0.001052062	0.52198002	2.051170357	53	D4_G2
GO_LEFT_RIGHT_PATTERN_FORMATION	Development	0.000235294	0.001052062	0.60858125	2.048663266	27	D4_G2
GO_CARDIOCYTE_DIFFERENTIATION	Development	0.000115194	0.00076617	0.44449647	2.047188501	126	D4_G2
GO_CELL_FATE_COMMITMENT_INVOLVED_IN_FORMATION_OF_PRIMARY_GERM_LAYER	Development	0.00058713	0.002095354	0.58495621	2.046580155	32	D4_G2
GO_CARDIAC_MUSCLE_TISSUE_DEVELOPMENT	Development	0.000116891	0.00076617	0.41819982	2.0443369	188	D4_G2

GO_GLAND_MORPHOGENESIS	Development	0.000115647	0.00076617	0.44365876	2.044293437	127	D4_G2
GO_MUSCLE_CELL_DEVELOPMENT	Development	0.000116063	0.00076617	0.4378379	2.042317348	137	D4_G2
GO_NEPHRON_EPITHELIUM_DEVELOPMENT	Development	0.00016077	0.00076617	0.45111358	2.034699976	111	D4_G2
GO_MESODERMAL_CELL_DIFFERENTIATION	Development	0.000582954	0.002095354	0.55604768	2.032554387	38	D4_G2
GO_METANEPHRIC_NEPHRON_DEVELOPMENT	Development	0.000707965	0.002394767	0.58488653	2.028548433	31	D4_G2
GO_NOTOCHORD_DEVELOPMENT	Development	0.000347262	0.001397836	0.53377929	2.023986003	45	D4_G2
GO_REGULATION_OF_CARTILAGE_DEVELOPMENT	Development	0.000230256	0.001052062	0.49316612	2.020180497	64	D4_G2
GO_CONNECTIVE_TISSUE_DEVELOPMENT	Development	0.000116469	0.00076617	0.40665189	2.019901939	211	D4_G2
GO_SMOOTH_MUSCLE_TISSUE_DEVELOPMENT	Development	0.000582343	0.002095354	0.54825623	2.015956382	39	D4_G2
GO_CARDIAC_CHAMBER_DEVELOPMENT	Development	0.00011711	0.00076617	0.40501944	2.013038359	213	D4_G2
GO_CARDIAC_VENTRICLE_DEVELOPMENT	Development	0.000116768	0.00076617	0.42233117	2.009421479	156	D4_G2
GO_DEVELOPMENTAL_INDUCATION	Development	0.000707965	0.002394767	0.57835116	2.005881968	31	D4_G2
GO_BRANCHING_INVOLVED_IN_URETERIC_BUD_MORPHOGENESIS	Development	0.000231696	0.001052062	0.50384517	2.003430791	56	D4_G2
GO_NEURAL_CRESCENT_CELL_DIFFERENTIATION	Development	0.000232666	0.001052062	0.45935094	2.003374713	92	D4_G2
GO_MUSCLE_ORGAN_MORPHOGENESIS	Development	0.000116023	0.00076617	0.45135544	1.998370492	100	D4_G2
GO_GENITALIA_DEVELOPMENT	Development	0.000348959	0.001397836	0.50965231	1.99324619	52	D4_G2
GO_VENTRICULAR_SYSTEM_DEVELOPMENT	Development	0.000232883	0.001052062	0.51675102	1.988113003	48	D4_G2
GO_CARDIAC_VENTRICLE_MORPHOGENESIS	Development	0.000231669	0.001052062	0.45004372	1.987559859	98	D4_G2
GO_POSITIVE_REGULATION_OF_VASCULATURE_DEVELOPMENT	Development	0.000230388	0.001052062	0.43070108	1.983651993	126	D4_G2
GO_OSTEOBLAST_DIFFERENTIATION	Development	0.00011655	0.00076617	0.40690077	1.973049259	177	D4_G2
GO_CORONARY_VASCULATURE_DEVELOPMENT	Development	0.000230867	0.001052062	0.46254186	1.961935043	78	D4_G2
GO_EPITHELIAL_CELL_DIFFERENTIATION_INVOLVED_IN_KIDNEY_DEVELOPMENT	Development	0.000939408	0.003070838	0.56008647	1.959568624	32	D4_G2
GO_NEGATIVE_REGULATION_OF_EMBRYONIC_DEVELOPMENT	Development	0.00034823	0.001397836	0.50093274	1.952179296	51	D4_G2
GO_OUTFLOW_TRACT_MORPHOGENESIS	Development	0.000231481	0.001052062	0.4570731	1.940759481	79	D4_G2
GO_BRAIN_MORPHOGENESIS	Development	0.000813764	0.002687663	0.52127919	1.935790755	41	D4_G2
GO_MYOTUBE_DIFFERENTIATION	Development	0.0003465	0.001397836	0.47368354	1.931529	63	D4_G2
GO_EMBRYONIC_DIGESTIVE_TRACT_DEVELOPMENT	Development	0.000694686	0.002394767	0.5163121	1.92890822	42	D4_G2
GO_REGULATION_OF_MESONEPHROS_DEVELOPMENT	Development	0.001645123	0.005003749	0.58152818	1.923978556	25	D4_G2
GO_VENTRICULAR_CARDIAC_MUSCLE_TISSUE_DEVELOPMENT	Development	0.000347262	0.001397836	0.45972996	1.923483183	72	D4_G2
GO_DORSAL_VENTRAL_PATTERN_FORMATION	Development	0.000233046	0.001052062	0.42352159	1.92275497	116	D4_G2
GO_DOPAMINERGIC_NEURON_DIFFERENTIATION	Development	0.001399091	0.004319415	0.52582816	1.922091154	38	D4_G2
GO_ARTERY_DEVELOPMENT	Development	0.00023218	0.001052062	0.41614831	1.919388822	128	D4_G2
GO_ENDOCARDIAL_CUSHION_DEVELOPMENT	Development	0.000694525	0.002394767	0.50391385	1.910742139	45	D4_G2
GO_DIGESTIVE_TRACT_MORPHOGENESIS	Development	0.000345861	0.001397836	0.45522001	1.90956751	73	D4_G2
GO_ARTERY_MORPHOGENESIS	Development	0.000230574	0.001052062	0.44459865	1.898978394	81	D4_G2
GO_CARTILAGE_DEVELOPMENT	Development	0.000116973	0.00076617	0.39823099	1.89235985	155	D4_G2
GO_CELL_FATE_COMMITMENT	Development	0.000117467	0.00076617	0.37701669	1.891676958	229	D4_G2
GO_BONE_DEVELOPMENT	Development	0.000116768	0.00076617	0.38260262	1.891643165	205	D4_G2
GO_GASTRULATION_WITH_MOUTH_FORMING_SECOND	Development	0.001864802	0.005413492	0.52163511	1.879532831	36	D4_G2
GO_PANCREAS_DEVELOPMENT	Development	0.000462481	0.001817224	0.43962279	1.879145985	82	D4_G2
GO_FACE_DEVELOPMENT	Development	0.000230574	0.001052062	0.43960872	1.877665308	81	D4_G2
GO_HEART_VALVE_DEVELOPMENT	Development	0.001978124	0.005699928	0.50750117	1.873469644	40	D4_G2
GO_METANEPHROS_MORPHOGENESIS	Development	0.0020059	0.005737463	0.53918168	1.870031357	31	D4_G2
GO_APOPTOTIC_PROCESS_INVOLVED_IN_DEVELOPMENT	Development	0.002223523	0.006313506	0.52577808	1.865993157	34	D4_G2
GO_REGULATION_OF_BIOMINERAL_TISSUE_DEVELOPMENT	Development	0.000815281	0.002687663	0.46464663	1.858883774	58	D4_G2
GO_STRIATED_MUSCLE_CELL_DIFFERENTIATION	Development	0.000116973	0.00076617	0.37537039	1.844240673	197	D4_G2
GO_NEGATIVE_REGULATION_OF_MUSCLE_TISSUE_DEVELOPMENT	Development	0.001850781	0.005413492	0.49060313	1.842554592	43	D4_G2
GO_LUNG_MORPHOGENESIS	Development	0.001048218	0.003397973	0.45965915	1.838930699	58	D4_G2
GO_CELL_DIFFERENTIATION_INVOLVED_IN_KIDNEY_DEVELOPMENT	Development	0.001397299	0.004319415	0.47524822	1.828437926	48	D4_G2
GO TRABECULA MORPHOGENESIS	Development	0.000691722	0.002394767	0.4416092	1.824870499	67	D4_G2
GO_DIENCEPHALON_DEVELOPMENT	Development	0.000577968	0.002095354	0.41359418	1.823992268	97	D4_G2
GO_ENDOCRINE_SYSTEM_DEVELOPMENT	Development	0.000231884	0.001052062	0.39371363	1.818449455	129	D4_G2

GO_REGULATION_OF_METANEPHROS_DEVELOPMENT	Development	0.005052879	0.013017019	0.54914105	1.816826155	25	D4_G2
GO_DEVELOPMENTAL_GROWTH_INVOLVED_IN_MORPHOGENESIS	Development	0.000348878	0.001397836	0.38880428	1.815303184	138	D4_G2
GO_PROSTATE_GLAND_MORPHOGENESIS	Development	0.003781165	0.010074474	0.53511665	1.814803505	28	D4_G2
GO_CELL_FATE_SPECIFICATION	Development	0.000576435	0.002095354	0.42452233	1.81322801	81	D4_G2
GO_BONE_MORPHOGENESIS	Development	0.000231777	0.001052062	0.41230751	1.809879635	95	D4_G2
GO_LUNG_ALVEOLUS_DEVELOPMENT	Development	0.001860249	0.005413492	0.46601296	1.809264032	50	D4_G2
GO_NEGATIVE_REGULATION_OF_CELL_MORPHOGENESIS_INVOLVED_IN_DIFFERENTIATION	Development	0.000116604	0.00076617	0.37268114	1.804304876	175	D4_G2
GO_EPITHELIAL_TUBE_BRANCHING_INVOLVED_IN_LUNG_MORPHOGENESIS	Development	0.003638498	0.009761211	0.51225151	1.803568822	33	D4_G2
GO_CARDIAC_MUSCLE_CELL_DIFFERENTIATION	Development	0.000577968	0.002095354	0.40697627	1.794806631	97	D4_G2
GO_APPENDAGE_DEVELOPMENT	Development	0.000117316	0.00076617	0.35807935	1.790589338	223	D4_G2
GO_LIMB_DEVELOPMENT	Development	0.000117316	0.00076617	0.35807935	1.790589338	223	D4_G2
GO_EAR_MORPHOGENESIS	Development	0.000233481	0.001052062	0.37160112	1.787868895	169	D4_G2
GO_EMBRYONIC_CRANIAL_SKELETON_MORPHOGENESIS	Development	0.001726917	0.005207525	0.43328377	1.774881495	64	D4_G2
GO_REGULATION_OF_CARDIAC_MUSCLE_TISSUE_DEVELOPMENT	Development	0.002439591	0.006876818	0.44755468	1.764631471	54	D4_G2
GO_CARDIAC_CELL_DEVELOPMENT	Development	0.001848002	0.005413492	0.42956445	1.751625541	63	D4_G2
GO_CARTILAGE_DEVELOPMENT_INVOLVED_IN_ENDOCHONDRAL_BONE_MORPHOGENESIS	Development	0.007529412	0.017859397	0.52032402	1.751563528	27	D4_G2
GO_CRANIAL_SKELETAL_SYSTEM_DEVELOPMENT	Development	0.001266989	0.004034866	0.41411686	1.746266875	75	D4_G2
GO_SOMITE_DEVELOPMENT	Development	0.000578905	0.002095354	0.38898695	1.742843932	107	D4_G2
GO_THYROID_GLAND_DEVELOPMENT	Development	0.009176471	0.020875129	0.51182283	1.722946001	27	D4_G2
GO_AORTA_DEVELOPMENT	Development	0.001275806	0.004034866	0.39496517	1.721727832	91	D4_G2
GO_ENDOTHELIUM_DEVELOPMENT	Development	0.000811971	0.002687663	0.37841148	1.716450364	115	D4_G2
GO_LATERAL_VENTRICLE_DEVELOPMENT	Development	0.007750117	0.017974384	0.48949016	1.712574067	32	D4_G2
GO_PARASYMPATHETIC_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.007750117	0.017974384	0.48944753	1.712424925	32	D4_G2
GO_INNER_EAR_MORPHOGENESIS	Development	0.000585138	0.002095354	0.36238797	1.710585301	149	D4_G2
GO_DENDRITIC_CELL_DIFFERENTIATION	Development	0.011163337	0.024610177	0.51640591	1.708522374	25	D4_G2
GO_HEART TRABECULA_MORPHOGENESIS	Development	0.009085546	0.020789866	0.49250139	1.708131165	31	D4_G2
GO_POSITIVE_REGULATION_OF_BIOMINERAL_TISSUE_DEVELOPMENT	Development	0.008074898	0.018586599	0.47960136	1.702111398	34	D4_G2
GO_ANTERIOR_POSTERIOR_PATTERN_SPECIFICATION	Development	0.000351947	0.001397836	0.33737073	1.691866172	228	D4_G2
GO_POSITIVE_REGULATION_OF_MESENCHYMAL_CELL_PROLIFERATION	Development	0.005771673	0.014210004	0.44788248	1.691414998	44	D4_G2
GO_HEPATICOBILIARY_SYSTEM_DEVELOPMENT	Development	0.000585069	0.002095354	0.35753421	1.690818551	151	D4_G2
GO_EMBRYONIC_SKELETAL_SYSTEM_DEVELOPMENT	Development	0.000701754	0.002394767	0.35582283	1.688706251	154	D4_G2
GO_POSITIVE_REGULATION_OF_EPITHELIAL_CELL_DIFFERENTIATION	Development	0.004076403	0.010787217	0.4207695	1.683347205	58	D4_G2
GO_KERATINOCYTE_DIFFERENTIATION	Development	0.002532811	0.007088228	0.39758999	1.680995273	76	D4_G2
GO_PROSTATE_GLAND_DEVELOPMENT	Development	0.006372379	0.015301576	0.43948906	1.675049272	46	D4_G2
GO_NEGATIVE_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION	Development	0.005571677	0.013893477	0.42881954	1.671147758	51	D4_G2
GO_EPIDERMAL_CELL_DIFFERENTIATION	Development	0.001153137	0.003707191	0.36239059	1.666669873	125	D4_G2
GO_AORTA_MORPHOGENESIS	Development	0.006158494	0.015067008	0.43052629	1.664174353	49	D4_G2
GO_SKELETAL_SYSTEM_MORPHOGENESIS	Development	0.000350918	0.001397836	0.3327136	1.659041713	218	D4_G2
GO_REGULATION_OF_MYELOID_LEUKOCYTE_DIFFERENTIATION	Development	0.001391466	0.004319415	0.36379457	1.657774789	119	D4_G2
GO_CELL_DIFFERENTIATION_INVOLVED_IN_EMBRYONIC_PLACENTA_DEVELOPMENT	Development	0.016899078	0.03496671	0.48017968	1.641882389	29	D4_G2
GO_EMBRYONIC_HINDLIMB_MORPHOGENESIS	Development	0.014160328	0.030432969	0.45938196	1.630352486	34	D4_G2
GO_NEGATIVE_REGULATION_OF_STRIATED_MUSCLE_CELL_DIFFERENTIATION	Development	0.019411765	0.039743034	0.48259622	1.624560646	27	D4_G2
GO_ENDOCRINE_PANCREAS_DEVELOPMENT	Development	0.012206464	0.026526896	0.43679383	1.622051037	41	D4_G2
GO_EMBRYONIC_PLACENTA_DEVELOPMENT	Development	0.003592537	0.009704839	0.36917025	1.620522786	95	D4_G2
GO_NEGATIVE_REGULATION_OF_MUSCLE_ORGAN_DEVELOPMENT	Development	0.010883409	0.024192263	0.43356739	1.619779386	42	D4_G2
GO_REGULATION_OF_CELL_FATE_COMMITMENT	Development	0.02068069	0.041682842	0.47243081	1.615386631	29	D4_G2
GO_EPITHELIAL_CELL_DEVELOPMENT	Development	0.000352154	0.001397836	0.31970214	1.606003289	232	D4_G2
GO_FEMALE_SEX_DIFFERENTIATION	Development	0.002658345	0.007334015	0.35012276	1.605296921	123	D4_G2
GO_LABYRINTHINE_LAYER_DEVELOPMENT	Development	0.010812696	0.024173212	0.41183077	1.598905312	50	D4_G2
GO_POSITIVE_REGULATION_OF_MYELOID_CELL_DIFFERENTIATION	Development	0.007762716	0.017974384	0.38100307	1.589254097	71	D4_G2
GO_SKELETAL_MUSCLE_ORGAN_DEVELOPMENT	Development	0.002572498	0.007147869	0.33631295	1.586081186	148	D4_G2
GO_EPITHELIAL_CELL_MORPHOGENESIS	Development	0.011197947	0.024610177	0.39580149	1.576249298	57	D4_G2



GO REGULATION OF MUSCLE TISSUE DEVELOPMENT	Development	0.003238866	0.008872669	0.33920763	1.575293021	133	D4_G2
GO_NEGATIVE_REGULATION_OF_LEUKOCYTE_DIFFERENTIATION	Development	0.004995353	0.012954616	0.34965752	1.573987829	110	D4_G2
GO_REGULATION_OF_MESENCHYMAL_CELL_PROLIFERATION	Development	0.013493079	0.029160043	0.40160185	1.570661716	52	D4_G2
GO_EMBRYONIC_SKELETAL_SYSTEM_MORPHOGENESIS	Development	0.004738241	0.01245389	0.34216379	1.562515486	120	D4_G2
GO_REGULATION_OF_SKELETAL_MUSCLE_TISSUE_DEVELOPMENT	Development	0.01060641	0.023849095	0.37751672	1.560019854	67	D4_G2
GO_ENDOCHONDRAL_BONE_MORPHOGENESIS	Development	0.014828545	0.031693978	0.39141706	1.556384863	56	D4_G2
GO_NEGATIVE_REGULATION_OF_MYELOID_LEUKOCYTE_DIFFERENTIATION	Development	0.022618631	0.044891059	0.42570333	1.556098877	38	D4_G2
GO_EMBRYONIC_CAMERA_TYPE_EYE_DEVELOPMENT	Development	0.015227246	0.032192385	0.39571972	1.555018448	53	D4_G2
GO_POSITIVE_REGULATION_OF_LEUKOCYTE_DIFFERENTIATION	Development	0.006854089	0.016357305	0.34370992	1.547214612	110	D4_G2
GO_NEGATIVE_REGULATION_OF_OSTEOCLAST_DIFFERENTIATION	Development	0.018747089	0.038585278	0.40181728	1.545924663	48	D4_G2
GO_NEGATIVE_REGULATION_OF_MYELOID_LEUKOCYTE_DIFFERENTIATION	Development	0.011917158	0.026043678	0.37209107	1.545804026	69	D4_G2
GO_NEURAL_TUBE_DEVELOPMENT	Development	0.001758087	0.005260738	0.3086394	1.539464343	219	D4_G2
GO_MALE_SEX_DIFFERENTIATION	Development	0.003269119	0.008892917	0.31700851	1.535561099	176	D4_G2
GO_MYELOID_LEUKOCYTE_DIFFERENTIATION	Development	0.007645968	0.017974384	0.34188199	1.534257855	108	D4_G2
GO_EMBRYONIC_AXIS_SPECIFICATION	Development	0.025017454	0.049399947	0.41554581	1.534011178	40	D4_G2
GO_PALATE_DEVELOPMENT	Development	0.005419742	0.013601803	0.3333797	1.533245954	125	D4_G2
GO_POSITIVE_REGULATION_OF_CELL_MORPHOGENESIS_INVOLVED_IN_DIFFERENTIATION	Development	0.001646478	0.005003749	0.30413002	1.533068074	238	D4_G2
GO_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION	Development	0.005320995	0.013528542	0.32857043	1.525893493	133	D4_G2
GO_REGULATION_OF_MUSCLE_ORGAN_DEVELOPMENT	Development	0.005210142	0.013333851	0.32872246	1.52447622	132	D4_G2
GO_COLUMNAR_CUBOIDAL_EPITHELIAL_CELL_DIFFERENTIATION	Development	0.006268865	0.015241177	0.32969517	1.52064352	128	D4_G2
GO_REGULATION_OF_STEM_CELL_PROLIFERATION	Development	0.009957161	0.022519393	0.3381494	1.515067839	107	D4_G2
GO_HEMATOPOIETIC_PROGENITOR_CELL_DIFFERENTIATION	Development	0.006360587	0.015301576	0.32853469	1.513824091	127	D4_G2
GO_NEGATIVE_REGULATION_OF_MUSCLE_CELL_DIFFERENTIATION	Development	0.02103803	0.042184504	0.38171884	1.512527501	55	D4_G2
GO_REGULATION_OF_OSTEOCLAST_DIFFERENTIATION	Development	0.01533318	0.032241118	0.36041465	1.511875765	73	D4_G2
GO_PLACENTA_DEVELOPMENT	Development	0.005383265	0.013597988	0.31839093	1.50290538	149	D4_G2
GO_CHONDROCYTE_DIFFERENTIATION	Development	0.016117891	0.033528661	0.35546428	1.502889397	76	D4_G2
GO_MORPHOGENESIS_OF_EMBRYONIC_EPITHELIUM	Development	0.004891684	0.012770907	0.30803879	1.49507747	178	D4_G2
GO_CARDIAC_SEPTUM_MORPHOGENESIS	Development	0.02147558	0.042841029	0.36842912	1.491778583	61	D4_G2
GO_ENDOTHELIAL_CELL_DIFFERENTIATION	Development	0.015041074	0.031972556	0.33632241	1.479484679	96	D4_G2
GO_REGULATION_OF_STRIATED_MUSCLE_CELL_DIFFERENTIATION	Development	0.015874855	0.033200638	0.3369229	1.473054309	93	D4_G2
GO_EYE_MORPHOGENESIS	Development	0.005614692	0.013911561	0.29576079	1.453108944	197	D4_G2
GO_CARDIAC_SEPTUM_DEVELOPMENT	Development	0.020122586	0.040769197	0.30752356	1.417008852	127	D4_G2
GO_CAMERA_TYPE_EYE_MORPHOGENESIS	Development	0.019793863	0.040313155	0.29774391	1.399720138	145	D4_G2
GO_NEURON_FATE_COMMITMENT	Development	0.000103295	0.001441616	0.59664783	2.464953619	77	D4_G3
GO_CARTILAGE_DEVELOPMENT	Development	0.000102775	0.001441616	0.48593062	2.248401493	155	D4_G3
GO_OLIGODENDROCYTE_DIFFERENTIATION	Development	0.000103767	0.001441616	0.54037023	2.242163084	79	D4_G3
GO_EMBRYONIC_SKELETAL_SYSTEM_MORPHOGENESIS	Development	0.000102955	0.001441616	0.49564116	2.209247143	120	D4_G3
GO_RENAL_TUBULE_DEVELOPMENT	Development	0.000103306	0.001441616	0.49970018	2.193832071	109	D4_G3
GO_EMBRYONIC_SKELETAL_SYSTEM_DEVELOPMENT	Development	0.000102817	0.001441616	0.47309942	2.186764064	154	D4_G3
GO_SPINAL_CORD_DEVELOPMENT	Development	0.000102564	0.001441616	0.48000988	2.182109028	138	D4_G3
GO_BONE TRABECULA MORPHOGENESIS	Development	0.000205867	0.00197642	0.62863759	2.163177972	32	D4_G3
GO_CHONDROCYTE_DIFFERENTIATION	Development	0.000103434	0.001441616	0.52214902	2.150364047	76	D4_G3
GO_SKELETAL_SYSTEM_MORPHOGENESIS	Development	0.000103008	0.001441616	0.433612	2.095534495	218	D4_G3
GO_CONNECTIVE_TISSUE_DEVELOPMENT	Development	0.000103402	0.001441616	0.42772028	2.059621703	211	D4_G3
GO_CHONDROCYTE_DEVELOPMENT	Development	0.000307913	0.002584283	0.57419875	2.04550337	37	D4_G3
GO_NEURON_FATE_SPECIFICATION	Development	0.000308071	0.002584283	0.58039511	2.040535813	35	D4_G3
GO_CELL_DIFFERENTIATION_IN_SPINAL_CORD	Development	0.000208312	0.00197642	0.50324523	2.037436514	69	D4_G3
GO_EAR_MORPHOGENESIS	Development	0.000102596	0.001441616	0.43066205	2.018196435	169	D4_G3
GO_REGULATION_OF_OLIGODENDROCYTE_DIFFERENTIATION	Development	0.000513452	0.003795048	0.5643985	1.984295406	35	D4_G3
GO_PROXIMAL_DISTAL_PATTERN_FORMATION	Development	0.000825593	0.005476097	0.57255128	1.983096627	33	D4_G3
GO_ANTERIOR_POSTERIOR_PATTERN_SPECIFICATION	Development	0.000103616	0.001441616	0.40751839	1.978353665	228	D4_G3
GO_CARTILAGE_DEVELOPMENT_INVOLVED_IN_ENDOCHONDRAL_BONE_MORPHOGENESIS	Development	0.001134605	0.006684705	0.59656218	1.970814964	27	D4_G3

GO_AUTONOMIC_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.000207383	0.00197642	0.50122331	1.967046195	58	D4_G3
GO_VENTRICULAR_SEPTUM_MORPHOGENESIS	Development	0.000618174	0.004398006	0.54963732	1.965686404	38	D4_G3
GO_MIDDLE_EAR_MORPHOGENESIS	Development	0.001342005	0.007250553	0.59965591	1.962554821	26	D4_G3
GO_DORSAL_VENTRAL_PATTERN_FORMATION	Development	0.000103114	0.001441616	0.44239419	1.960420893	116	D4_G3
GO TRABECULA MORPHOGENESIS	Development	0.000206804	0.00197642	0.48553406	1.958460728	67	D4_G3
GO_ENDOCHONDRAL_BONE_MORPHOGENESIS	Development	0.000310913	0.002584283	0.50301024	1.958287373	56	D4_G3
GO_CELL_FATE_COMMITMENT	Development	0.000103638	0.001441616	0.4017159	1.951407676	229	D4_G3
GO_SPINAL_CORD_PATTERNING	Development	0.000725238	0.004949433	0.57516219	1.946011158	30	D4_G3
GO_POSITIVE_REGULATION_OF_CARTILAGE_DEVELOPMENT	Development	0.001136129	0.006684705	0.56448818	1.92500912	31	D4_G3
GO_GLIA_CELL_DIFFERENTIATION	Development	0.000102754	0.001441616	0.41003082	1.923884501	171	D4_G3
GO_NEPHRON_EPITHELIUM_DEVELOPMENT	Development	0.000103327	0.001441616	0.43278333	1.904607562	111	D4_G3
GO_VENTRAL_SPINAL_CORD_DEVELOPMENT	Development	0.000309246	0.002584283	0.48015359	1.903840565	61	D4_G3
GO_NEGATIVE_REGULATION_OF_GLIA_CELL_DIFFERENTIATION	Development	0.001445982	0.00753876	0.558184	1.903510674	31	D4_G3
GO_NOTOCHORD_DEVELOPMENT	Development	0.000721873	0.004949433	0.51097324	1.898373736	45	D4_G3
GO_REGULATION_OF_GLIA_CELL_DIFFERENTIATION	Development	0.000207533	0.00197642	0.45688455	1.8957552	79	D4_G3
GO_NEPHRON_DEVELOPMENT	Development	0.000102323	0.001441616	0.41023089	1.892914323	151	D4_G3
GO_PALATE_DEVELOPMENT	Development	0.000103199	0.001441616	0.42239069	1.892007024	125	D4_G3
GO_CRANIAL_NERVE_MORPHOGENESIS	Development	0.00051557	0.003795048	0.50090629	1.889221331	48	D4_G3
GO_REGULATION_OF_ASTROCYTE_DIFFERENTIATION	Development	0.001238902	0.006984532	0.51981733	1.878463268	40	D4_G3
GO_METANEPHROS_DEVELOPMENT	Development	0.00020749	0.00197642	0.44555991	1.873931374	85	D4_G3
GO_EYE_MORPHOGENESIS	Development	0.000102701	0.001441616	0.38857121	1.857667998	197	D4_G3
GO_INNER_EAR_MORPHOGENESIS	Development	0.000102155	0.001441616	0.40347671	1.857648243	149	D4_G3
GO_KIDNEY_EPITHELIUM_DEVELOPMENT	Development	0.000102743	0.001441616	0.39908588	1.852069358	158	D4_G3
GO_REGULATION_OF_CHONDROCYTE_DIFFERENTIATION	Development	0.001137186	0.006684705	0.48375226	1.831239194	49	D4_G3
GO_LENS_MORPHOGENESIS_IN_CAMERA_TYPE_EYE	Development	0.002264306	0.010612231	0.52482746	1.830228398	34	D4_G3
GO_CENTRAL_NERVOUS_SYSTEM_NEURON_DEVELOPMENT	Development	0.000103337	0.001441616	0.40784084	1.824726635	124	D4_G3
GO_KIDNEY_MORPHOGENESIS	Development	0.000205804	0.00197642	0.4233458	1.805804892	91	D4_G3
GO_APPENDAGE_DEVELOPMENT	Development	0.000103252	0.001441616	0.37220333	1.802533279	223	D4_G3
GO_LIMB_DEVELOPMENT	Development	0.000103252	0.001441616	0.37220333	1.802533279	223	D4_G3
GO_DIENCEPHALON_DEVELOPMENT	Development	0.000205825	0.00197642	0.41709655	1.798276794	97	D4_G3
GO_POST_ANAL_TAIL_MORPHOGENESIS	Development	0.002667487	0.012141715	0.50792552	1.796472179	36	D4_G3
GO_SMOOTH_MUSCLE_TISSUE_DEVELOPMENT	Development	0.00267986	0.012141715	0.49739333	1.788064131	39	D4_G3
GO_DENDRITE_MORPHOGENESIS	Development	0.000207533	0.00197642	0.43005225	1.784419689	79	D4_G3
GO_AORTA_MORPHOGENESIS	Development	0.00196423	0.00967197	0.47080664	1.782233667	49	D4_G3
GO_MORPHOGENESIS_OF_AN_EPITHELIAL_SHEET	Development	0.000517063	0.003795048	0.42893606	1.776810119	78	D4_G3
GO_REGULATION_OF_STEM_CELL_PROLIFERATION	Development	0.000103242	0.001441616	0.4049648	1.774771357	107	D4_G3
GO_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION	Development	0.000103338	0.001441616	0.39114036	1.766958187	133	D4_G3
GO_PERICARDIUM_DEVELOPMENT	Development	0.005574481	0.020652126	0.5394156	1.765400266	26	D4_G3
GO_CAMERA_TYPE_EYE_MORPHOGENESIS	Development	0.000206101	0.00197642	0.38468187	1.761499715	145	D4_G3
GO_BRANCHING_MORPHOGENESIS_OF_AN_EPITHELIAL_TUBE	Development	0.000102743	0.001441616	0.36686601	1.759920922	203	D4_G3
GO_DIGESTIVE_SYSTEM_DEVELOPMENT	Development	0.000205931	0.00197642	0.36975631	1.757161956	189	D4_G3
GO_EMBRYONIC_EYE_MORPHOGENESIS	Development	0.002170991	0.010426119	0.46061466	1.751481122	50	D4_G3
GO_LENS_DEVELOPMENT_IN_CAMERA_TYPE_EYE	Development	0.00031224	0.002584283	0.42017552	1.750761694	81	D4_G3
GO_CRANIAL_NERVE_DEVELOPMENT	Development	0.000930714	0.005973506	0.42151846	1.746083713	78	D4_G3
GO_OSTEOBLAST_DIFFERENTIATION	Development	0.000205444	0.00197642	0.37018492	1.744638082	177	D4_G3
GO_OTIC_VESICLE_DEVELOPMENT	Development	0.005043228	0.019233486	0.49689061	1.732804349	34	D4_G3
GO_POSITIVE_REGULATION_OF_STEM_CELL_PROLIFERATION	Development	0.000830565	0.005476097	0.41622644	1.731263793	80	D4_G3
GO_BONE_MORPHOGENESIS	Development	0.000413437	0.00335056	0.40221204	1.726530126	95	D4_G3
GO_OLIGODENDROCYTE_DEVELOPMENT	Development	0.004521167	0.018065384	0.46790363	1.722558301	43	D4_G3
GO_REGULATION_OF_CARTILAGE_DEVELOPMENT	Development	0.001554243	0.007955271	0.43051307	1.72225826	64	D4_G3
GO_NEURAL_RETINA_DEVELOPMENT	Development	0.001859312	0.009272723	0.42694738	1.718134343	66	D4_G3
GO_HYPOTHALAMUS_DEVELOPMENT	Development	0.00815526	0.027114496	0.52367598	1.713887598	26	D4_G3

GO_SKELETAL_MUSCLE_CELL_DIFFERENTIATION	Development	0.003007051	0.013143178	0.43492444	1.706856895	58	D4_G3
GO_PIGMENT_CELL_DIFFERENTIATION	Development	0.007205353	0.024586685	0.49594212	1.706565257	32	D4_G3
GO_ARTERY_MORPHOGENESIS	Development	0.000936719	0.005973506	0.40890735	1.703810184	81	D4_G3
GO_PALLIUM_DEVELOPMENT	Development	0.000102796	0.001441616	0.34730363	1.699571218	241	D4_G3
GO_SPINAL_CORD_MOTOR_NEURON_DIFFERENTIATION	Development	0.004743735	0.018270426	0.45744489	1.699504594	45	D4_G3
GO_CEREBRAL_CORTEX_DEVELOPMENT	Development	0.000510777	0.003795048	0.3638748	1.69785682	163	D4_G3
GO_MAMMARY_GLAND_EPITHELIUM_DEVELOPMENT	Development	0.00115135	0.006684705	0.40568086	1.691757625	82	D4_G3
GO_STEM_CELL_PROLIFERATION	Development	0.001453488	0.00753876	0.4066202	1.691307344	80	D4_G3
GO_RETINA_DEVELOPMENT_IN_CAMERA_TYPE_EYE	Development	0.000307377	0.002584283	0.35580448	1.681997332	181	D4_G3
GO_GLIAL_CELL_DEVELOPMENT	Development	0.001033805	0.006383338	0.39270843	1.680270096	93	D4_G3
GO_FORELIMB_MORPHOGENESIS	Development	0.006284772	0.022429142	0.46912559	1.67774962	38	D4_G3
GO_DEVELOPMENTAL_PIGMENTATION	Development	0.006504233	0.023001333	0.46337292	1.67449016	40	D4_G3
GO_CARDIAC_SEPTUM_MORPHOGENESIS	Development	0.004123286	0.017063387	0.42161042	1.671713012	61	D4_G3
GO_POSITIVE_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION	Development	0.003408739	0.014571422	0.41490418	1.669669768	66	D4_G3
GO_CELL_FATE_SPECIFICATION	Development	0.001665279	0.008412903	0.40034473	1.6681351991	81	D4_G3
GO_HINDBRAIN_DEVELOPMENT	Development	0.000206143	0.00197642	0.34717929	1.667759331	206	D4_G3
GO_COCHLEA_DEVELOPMENT	Development	0.004226368	0.017305866	0.41986631	1.664797511	61	D4_G3
GO_DIGESTIVE_TRACT_MORPHOGENESIS	Development	0.002984767	0.013143178	0.40447905	1.656768638	73	D4_G3
GO_POSITIVE_REGULATION_OF_GLIAL_CELL_DIFFERENTIATION	Development	0.009438802	0.030344577	0.46576859	1.647368106	36	D4_G3
GO_CORPUS_CALLOSUM_DEVELOPMENT	Development	0.012637249	0.038107673	0.49203272	1.637493402	28	D4_G3
GO_ENDOCRINE_SYSTEM_DEVELOPMENT	Development	0.001238262	0.006984532	0.36289971	1.633630486	129	D4_G3
GO_LIMBIC_SYSTEM_DEVELOPMENT	Development	0.001026273	0.006383338	0.35693259	1.629425771	142	D4_G3
GO_OSTEOBLAST_DEVELOPMENT	Development	0.018415063	0.048558771	0.50153344	1.62468075	25	D4_G3
GO_POST_EMBRYONIC_DEVELOPMENT	Development	0.001445087	0.00753876	0.35823499	1.613741681	130	D4_G3
GO_STEM_CELL_DIVISION	Development	0.010480888	0.032879559	0.43826116	1.613431359	43	D4_G3
GO_DEVELOPMENTAL_GROWTH_INVOLVED_IN_MORPHOGENESIS	Development	0.001333333	0.007250553	0.35482523	1.613023775	138	D4_G3
GO_ENDOCARDIAL_CUSHION_MORPHOGENESIS	Development	0.014815582	0.042376923	0.47599445	1.610485773	30	D4_G3
GO_MORPHOGENESIS_OF_A_BRANCHING_STRUCTURE	Development	0.000621826	0.004398006	0.33139995	1.609835208	229	D4_G3
GO_NEURAL_TUBE_DEVELOPMENT	Development	0.000516156	0.003795048	0.33266619	1.608080831	219	D4_G3
GO_LENS_FIBER_CELL_DIFFERENTIATION	Development	0.011028654	0.034048781	0.44589573	1.602936985	39	D4_G3
GO_PLACENTA_BLOOD_VESSEL_DEVELOPMENT	Development	0.014306299	0.041530972	0.45910944	1.601050249	34	D4_G3
GO_PITUITARY_GLAND_DEVELOPMENT	Development	0.008787346	0.028485647	0.42062197	1.599409457	50	D4_G3
GO_SCHWANN_CELL_DIFFERENTIATION	Development	0.013187719	0.039461713	0.44414662	1.588416462	38	D4_G3
GO_RETINA_MORPHOGENESIS_IN_CAMERA_TYPE_EYE	Development	0.008347934	0.027519883	0.39986935	1.580010307	60	D4_G3
GO_PERIPHERAL_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.005208333	0.019670307	0.37761806	1.579444581	83	D4_G3
GO_PATTERNING_OF_BLOOD_VESSELS	Development	0.007858546	0.026353228	0.38864929	1.567664214	67	D4_G3
GO_FOREBRAIN_NEURON_DEVELOPMENT	Development	0.009706733	0.030698529	0.3975396	1.565379599	59	D4_G3
GO_RETINA_VASCULATURE_DEVELOPMENT_IN_CAMERA_TYPE_EYE	Development	0.018474802	0.048558771	0.43912806	1.563568015	37	D4_G3
GO_OSTEOCLAST_DIFFERENTIATION	Development	0.016020672	0.04483483	0.42710022	1.561783814	42	D4_G3
GO_BRANCHING_INVOLVED_IN_URETERIC_BUD_MORPHOGENESIS	Development	0.01119287	0.034283672	0.40079724	1.560358252	56	D4_G3
GO_ARTERY_DEVELOPMENT	Development	0.002788104	0.01246635	0.34675171	1.558985257	128	D4_G3
GO_DENDRITE_DEVELOPMENT	Development	0.002684287	0.012141715	0.34426023	1.557842856	134	D4_G3
GO_NEURAL_CRESCENT_CELL_DIFFERENTIATION	Development	0.00588843	0.021407469	0.36358777	1.553176203	92	D4_G3
GO_HIPPOCAMPUS_DEVELOPMENT	Development	0.004645881	0.018072476	0.35437465	1.553058393	107	D4_G3
GO_SKIN_EPIDERMIS_DEVELOPMENT	Development	0.008481589	0.02772553	0.37624481	1.549487373	76	D4_G3
GO_REGULATION_OF_MESENCHYMAL_CELL_PROLIFERATION	Development	0.013405383	0.039806824	0.4041098	1.546514316	52	D4_G3
GO_DEVELOPMENTAL_CELL_GROWTH	Development	0.005758355	0.021132075	0.35440308	1.542664738	103	D4_G3
GO_ASTROCYTE_DIFFERENTIATION	Development	0.015920604	0.04483483	0.40518418	1.533820525	49	D4_G3
GO_LUNG_ALVEOLUS_DEVELOPMENT	Development	0.016540887	0.045312712	0.40165973	1.527305781	50	D4_G3
GO_BONE_DEVELOPMENT	Development	0.001337173	0.007250553	0.31788741	1.526835275	205	D4_G3
GO_CARDIAC_CHAMBER_MORPHOGENESIS	Development	0.003379416	0.014571422	0.33071224	1.520867967	148	D4_G3
GO_NERVE_DEVELOPMENT	Development	0.007734351	0.026162282	0.34376623	1.50887019	108	D4_G3

GO REGULATION OF EPITHELIAL CELL DIFFERENTIATION	Development	0.006591143	0.023098691	0.33816946	1.508544107	121	D4_G3
GO SKELETAL MUSCLE ORGAN DEVELOPMENT	Development	0.003789042	0.015848791	0.32720016	1.504716737	148	D4_G3
GO MESENCHYME DEVELOPMENT	Development	0.002059096	0.010012355	0.31070339	1.499445182	215	D4_G3
GO VENTRICULAR SEPTUM DEVELOPMENT	Development	0.014462595	0.0416737	0.36918669	1.497520891	70	D4_G3
GO MESENCHYMAL CELL DIFFERENTIATION	Development	0.003683995	0.015576892	0.31997551	1.491603185	162	D4_G3
GO ENDOTHELIAL CELL DIFFERENTIATION	Development	0.01083256	0.033710925	0.34393329	1.479046656	96	D4_G3
GO METENCEPHALON DEVELOPMENT	Development	0.005444273	0.020363676	0.31661093	1.465943227	156	D4_G3
GO SOMITE DEVELOPMENT	Development	0.014040884	0.041139149	0.33012772	1.446795451	107	D4_G3
GO MESONEPHROS DEVELOPMENT	Development	0.015012853	0.042627737	0.33208886	1.445534198	103	D4_G3
GO FEMALE SEX DIFFERENTIATION	Development	0.01406557	0.041139149	0.32035713	1.431792629	123	D4_G3
GO MAMMARY GLAND DEVELOPMENT	Development	0.011541632	0.035075742	0.31267658	1.431779736	145	D4_G3
GO CARDIAC CHAMBER DEVELOPMENT	Development	0.006193229	0.022307092	0.29466769	1.42036859	213	D4_G3
GO CARDIAC SEPTUM DEVELOPMENT	Development	0.016406976	0.045264635	0.31477852	1.413863928	127	D4_G3
GO GLAND MORPHOGENESIS	Development	0.016406976	0.045264635	0.31465522	1.413310145	127	D4_G3
GO REGULATION OF MUSCLE CELL DIFFERENTIATION	Development	0.009654889	0.030698529	0.29796312	1.407303459	180	D4_G3
GO REGULATION OF MUSCLE TISSUE DEVELOPMENT	Development	0.017877441	0.047886117	0.30941942	1.397787651	133	D4_G3
GO STEM CELL DIFFERENTIATION	Development	0.006923633	0.024047262	0.28846305	1.397526103	224	D4_G3
GO CARDIAC MUSCLE TISSUE DEVELOPMENT	Development	0.017972682	0.047886117	0.28435283	1.350915754	188	D4_G3
GO POSITIVE REGULATION OF CELL MORPHOGENESIS INVOLVED IN DIFFERENTIATION	Development	0.017498713	0.04727083	0.27051123	1.321530262	238	D4_G3
GO PLACENTA DEVELOPMENT	Development	0.004601978	0.018072476	-0.3251107	-1.4936215	149	D4_G3
GO EMBRYONIC PLACENTA DEVELOPMENT	Development	0.004551177	0.018065384	-0.3617128	-1.55172353	95	D4_G3
GO MYELOID LEUKOCYTE DIFFERENTIATION	Development	0.002231926	0.01058804	-0.358332	-1.56874913	108	D4_G3
GO DENDRITIC CELL DIFFERENTIATION	Development	0.017221362	0.046846922	-0.4941639	-1.59726175	25	D4_G3
GO ANTERIOR POSTERIOR AXIS SPECIFICATION	Development	0.007047693	0.024261526	-0.4125693	-1.61231175	58	D4_G3
GO BLASTOCYST DEVELOPMENT	Development	0.004369356	0.017704996	-0.4184938	-1.64491174	60	D4_G3
GO VENTRAL SPINAL CORD DEVELOPMENT	Development	8.23E-05	0.001845973	0.67170365	2.649327714	61	D4_G4
GO CELL DIFFERENTIATION IN SPINAL CORD	Development	8.10E-05	0.001845973	0.65737574	2.648925364	69	D4_G4
GO NEURON FATE COMMITMENT	Development	7.95E-05	0.001845973	0.63317335	2.61119216	77	D4_G4
GO SPINAL CORD DEVELOPMENT	Development	7.30E-05	0.001845973	0.57228142	2.593750044	138	D4_G4
GO NEURON FATE SPECIFICATION	Development	8.84E-05	0.001845973	0.72212213	2.530094606	35	D4_G4
GO SPINAL CORD PATTERNING	Development	9.02E-05	0.001845973	0.69763508	2.358267831	30	D4_G4
GO RETINA MORPHOGENESIS IN CAMERA TYPE EYE	Development	8.22E-05	0.001845973	0.5958463	2.343133817	60	D4_G4
GO NEURAL RETINA DEVELOPMENT	Development	8.16E-05	0.001845973	0.58027605	2.321490603	66	D4_G4
GO SPINAL CORD MOTOR NEURON DIFFERENTIATION	Development	0.000171365	0.003071627	0.59611624	2.207425445	45	D4_G4
GO ENDOCRINE PANCREAS DEVELOPMENT	Development	0.000173717	0.003071627	0.60436103	2.191883545	41	D4_G4
GO CELL FATE COMMITMENT	Development	6.72E-05	0.001845973	0.44739881	2.171099421	229	D4_G4
GO GLANDULAR EPITHELIAL CELL DIFFERENTIATION	Development	0.000170285	0.003071627	0.58060197	2.163216881	46	D4_G4
GO CELL FATE SPECIFICATION	Development	7.91E-05	0.001845973	0.51643569	2.144904916	81	D4_G4
GO AUTONOMIC NERVOUS SYSTEM DEVELOPMENT	Development	8.28E-05	0.001845973	0.54590569	2.130032477	58	D4_G4
GO CENTRAL NERVOUS SYSTEM NEURON DEVELOPMENT	Development	7.41E-05	0.001845973	0.47447688	2.119517706	124	D4_G4
GO CAMERA TYPE EYE MORPHOGENESIS	Development	7.23E-05	0.001845973	0.45394462	2.076325775	145	D4_G4
GO ENDOCRINE SYSTEM DEVELOPMENT	Development	7.38E-05	0.001845973	0.46114483	2.070747472	129	D4_G4
GO RETINA DEVELOPMENT IN CAMERA TYPE EYE	Development	7.02E-05	0.001845973	0.43906682	2.066579361	181	D4_G4
GO SYMPATHETIC NERVOUS SYSTEM DEVELOPMENT	Development	0.000527797	0.007658762	0.58324171	2.058120109	36	D4_G4
GO HINDBRAIN DEVELOPMENT	Development	6.85E-05	0.001845973	0.42916717	2.056370058	206	D4_G4
GO PANCREAS DEVELOPMENT	Development	7.91E-05	0.001845973	0.49401407	2.056006738	82	D4_G4
GO CELL DIFFERENTIATION IN HINDBRAIN	Development	0.000531585	0.007658762	0.57264915	1.993267799	34	D4_G4
GO CARDIAC ATRIUM DEVELOPMENT	Development	0.00034822	0.005644061	0.552089	1.991900258	40	D4_G4
GO EYE MORPHOGENESIS	Development	6.91E-05	0.001845973	0.40757859	1.941185163	197	D4_G4
GO METENCEPHALON DEVELOPMENT	Development	7.17E-05	0.001845973	0.4135556	1.908842839	156	D4_G4
GO ASTROCYTE DIFFERENTIATION	Development	0.000678829	0.009430875	0.49960607	1.884840665	49	D4_G4
GO DORSAL VENTRAL PATTERN FORMATION	Development	0.00037546	0.005842157	0.41874722	1.850269314	116	D4_G4

GO_GLIAL_CELL_DIFFERENTIATION	Development	0.000211297	0.003573682	0.393774	1.841823452	171	D4_G4
GO_PERICARDIUM_DEVELOPMENT	Development	0.004478567	0.043554063	0.56189307	1.835884798	26	D4_G4
GO_OLIGODENDROCYTE_DIFFERENTIATION	Development	0.004046977	0.040365998	0.41066941	1.698530975	79	D4_G4
GO_GLIAL_CELL_DEVELOPMENT	Development	0.003095257	0.033445966	0.39742583	1.693858872	93	D4_G4
GO_NERVE_DEVELOPMENT	Development	0.002119927	0.025770366	0.38769828	1.693286706	108	D4_G4
GO_HIPPOCAMPUS_DEVELOPMENT	Development	0.002884469	0.033001724	0.38247577	1.667158226	107	D4_G4
GO_LIMBIC_SYSTEM_DEVELOPMENT	Development	0.003339868	0.035113746	0.35073383	1.597866918	142	D4_G4
GO_CARDIAC_CHAMBER_DEVELOPMENT	Development	0.002109848	0.025770366	0.32730602	1.575221742	213	D4_G4
GO_PALLIUM_DEVELOPMENT	Development	0.002792368	0.03291609	0.31704658	1.547196901	241	D4_G4
GO_ANTERIOR_POSTERIOR_PATTERN_SPECIFICATION	Development	0.003700215	0.03787852	0.31449925	1.525117263	228	D4_G4
GO_EPIDERMAL_CELL_DIFFERENTIATION	Development	0.001384189	0.017948324	-0.3232354	-1.62634463	125	D4_G4
GO_BLASTOCYST_DEVELOPMENT	Development	0.003062787	0.033445966	-0.3959407	-1.72084958	60	D4_G4
GO_ANTERIOR_POSTERIOR_AXIS_SPECIFICATION	Development	0.000883169	0.01184665	-0.4256967	-1.83840824	58	D4_G4
GO_CAMERA_TYPE_EYE_MORPHOGENESIS	Development	0.01210845	0.042434116	-0.2785586	-1.40427446	145	D4_G5
GO_REGULATION_OF_EMBRYONIC_DEVELOPMENT	Development	0.009159483	0.034836616	-0.2797303	-1.41962114	152	D4_G5
GO_DIENCEPHALON_DEVELOPMENT	Development	0.013793103	0.047065941	-0.3071269	-1.44117767	97	D4_G5
GO_ARTERY_MORPHOGENESIS	Development	0.014575052	0.04809761	-0.3233133	-1.46884218	81	D4_G5
GO_EYE_MORPHOGENESIS	Development	0.001996672	0.009708819	-0.2791474	-1.46904425	197	D4_G5
GO_REGULATION_OF_MUSCLE_CELL_DIFFERENTIATION	Development	0.002497658	0.011167691	-0.2849236	-1.47681924	180	D4_G5
GO_CEREBRAL_CORTEX_DEVELOPMENT	Development	0.003412969	0.014430924	-0.2887566	-1.48067741	163	D4_G5
GO_REGULATION_OF_STEM_CELL_PROLIFERATION	Development	0.008099825	0.031508319	-0.3104829	-1.48486672	107	D4_G5
GO_CARDIAC_CHAMBER_DEVELOPMENT	Development	0.001770538	0.008829992	-0.2817953	-1.49862322	213	D4_G5
GO_EPITHELIAL_TO_MESENCHYMAL_TRANSITION	Development	0.011502647	0.040677544	-0.3380999	-1.50204886	74	D4_G5
GO_BONE_DEVELOPMENT	Development	0.001035554	0.006577585	-0.2845414	-1.50507501	205	D4_G5
GO_MESODERM_DEVELOPMENT	Development	0.002552323	0.011282426	-0.301521	-1.51051493	139	D4_G5
GO_POSITIVE_REGULATION_OF_MUSCLE_CELL_DIFFERENTIATION	Development	0.006854839	0.027209513	-0.323211	-1.51220927	93	D4_G5
GO_NERVE_DEVELOPMENT	Development	0.004859731	0.019899318	-0.3182417	-1.52385433	108	D4_G5
GO_ARTERY_DEVELOPMENT	Development	0.003174603	0.013570556	-0.3096342	-1.52994007	128	D4_G5
GO_STEM_CELL_DIFFERENTIATION	Development	0.001468968	0.007747718	-0.2854298	-1.53019989	224	D4_G5
GO_NEGATIVE_REGULATION_OF_CELL_MORPHOGENESIS_INVOLVED_IN_DIFFERENTIATION	Development	0.000898473	0.005825097	-0.2955482	-1.53110308	175	D4_G5
GO_CELL_FATE_SPECIFICATION	Development	0.00681431	0.027209513	-0.3394176	-1.54200563	81	D4_G5
GO_REGULATION_OF_GASTRULATION	Development	0.014157014	0.047887639	-0.3739837	-1.546108	53	D4_G5
GO_REGULATION_OF_CARTILAGE_DEVELOPMENT	Development	0.011257361	0.040186758	-0.3588332	-1.55202202	64	D4_G5
GO_NEURAL_TUBE_DEVELOPMENT	Development	0.001100514	0.006674292	-0.2930781	-1.56378979	219	D4_G5
GO_GASTRULATION	Development	0.000666889	0.004396946	-0.2999633	-1.57503854	195	D4_G5
GO_CELL_FATE_COMMITMENT	Development	0.000376648	0.003019577	-0.2943383	-1.58252868	229	D4_G5
GO_LIMBIC_SYSTEM_DEVELOPMENT	Development	0.000519076	0.00373927	-0.3160744	-1.58776181	142	D4_G5
GO_GLAND_MORPHOGENESIS	Development	0.002187652	0.010506131	-0.3217456	-1.58788401	127	D4_G5
GO_DENDRITIC_SPINE_DEVELOPMENT	Development	0.01459002	0.04809761	-0.4132346	-1.59015212	39	D4_G5
GO_POSITIVE_REGULATION_OF_EPITHELIAL_TO_MESENCHYMAL_TRANSITION	Development	0.009958506	0.036545839	-0.3816476	-1.59271757	56	D4_G5
GO_HEART_VALVE_DEVELOPMENT	Development	0.012305889	0.04274099	-0.412318	-1.59783594	40	D4_G5
GO_AORTA_MORPHOGENESIS	Development	0.011260557	0.040186758	-0.3937575	-1.60040905	49	D4_G5
GO_MESENCHYME_DEVELOPMENT	Development	0.000356633	0.003019577	-0.3008758	-1.60257669	215	D4_G5
GO_SCHWANN_CELL_DIFFERENTIATION	Development	0.013292877	0.045760434	-0.4215706	-1.6096759	38	D4_G5
GO_OTIC_VESICLE_DEVELOPMENT	Development	0.01455419	0.04809761	-0.4360163	-1.61439397	34	D4_G5
GO_GLIAL_CELL_DIFFERENTIATION	Development	0.00059453	0.004129862	-0.3129026	-1.61489588	171	D4_G5
GO_DIGESTIVE_SYSTEM_DEVELOPMENT	Development	0.000323729	0.003019577	-0.3095909	-1.6150811	189	D4_G5
GO_SPINAL_CORD_MOTOR_NEURON_DIFFERENTIATION	Development	0.010708276	0.038930087	-0.4077247	-1.6222514	45	D4_G5
GO_HIPPOCAMPUS_DEVELOPMENT	Development	0.001751313	0.008829992	-0.3392432	-1.62241144	107	D4_G5
GO_CHONDROCYTE_DIFFERENTIATION	Development	0.00276294	0.01207622	-0.3637106	-1.62662077	76	D4_G5
GO_PALLIUM_DEVELOPMENT	Development	0.000395883	0.003019577	-0.3001253	-1.62672219	241	D4_G5
GO_POSITIVE_REGULATION_OF_CELL_MORPHOGENESIS_INVOLVED_IN_DIFFERENTIATION	Development	0.000393856	0.003019577	-0.3014525	-1.63131074	238	D4_G5

GO_NEURAL_TUBE_PATTERNING	Development	0.007587488	0.029813464	-0.4071154	-1.647403	48	D4_G5
GO_MORPHOGENESIS_OF_AN_EPITHELIAL_SHEET	Development	0.002416357	0.011167691	-0.3674647	-1.65535603	78	D4_G5
GO_POST_ANAL_TAIL_MORPHOGENESIS	Development	0.009693514	0.03602768	-0.4420629	-1.6629953	36	D4_G5
GO_OLIGODENDROCYTE_DIFFERENTIATION	Development	0.001490035	0.007747718	-0.372342	-1.68228112	79	D4_G5
GO_ENDOCARDIAL_CUSHION_MORPHOGENESIS	Development	0.009224091	0.034836616	-0.4693871	-1.68575248	30	D4_G5
GO_HEART TRABECULA MORPHOGENESIS	Development	0.009724695	0.03602768	-0.4661125	-1.68818608	31	D4_G5
GO_FOREBRAIN_NEURON_DEVELOPMENT	Development	0.00400534	0.016753521	-0.3992007	-1.6920594	59	D4_G5
GO_SKIN_EPIDERMIS_DEVELOPMENT	Development	0.00184196	0.009069904	-0.3804428	-1.70145241	76	D4_G5
GO_LEFT_RIGHT_PATTERN_FORMATION	Development	0.009075365	0.034836616	-0.4870494	-1.7029975	27	D4_G5
GO_MORPHOGENESIS_OF_A_BRANCHING_STRUCTURE	Development	0.000376648	0.003019577	-0.3170168	-1.70446102	229	D4_G5
GO_CRANIAL_NERVE_DEVELOPMENT	Development	0.001115242	0.006674292	-0.379157	-1.70802753	78	D4_G5
GO_CARDIAC_SEPTUM_DEVELOPMENT	Development	0.000243072	0.003019577	-0.3463275	-1.70920141	127	D4_G5
GO_BONE_MORPHOGENESIS	Development	0.000616396	0.004154163	-0.3659011	-1.71303714	95	D4_G5
GO_ENDOCHONDRAL_BONE_MORPHOGENESIS	Development	0.002323651	0.010890366	-0.4106636	-1.71380908	56	D4_G5
GO_CENTRAL_NERVOUS_SYSTEM_NEURON_DEVELOPMENT	Development	0.000239981	0.003019577	-0.3500933	-1.71835364	124	D4_G5
GO_REGULATION_OF_STEM_CELL_DIFFERENTIATION	Development	0.000298686	0.003019577	-0.3324365	-1.72007594	174	D4_G5
GO_VENTRICULAR_SEPTUM_DEVELOPMENT	Development	0.001608292	0.008231914	-0.3957081	-1.73477918	70	D4_G5
GO_MESONEPHROS_DEVELOPMENT	Development	0.000215843	0.003019577	-0.3681417	-1.74846439	103	D4_G5
GO_MESENCHYMAL_CELL_DIFFERENTIATION	Development	0.000286123	0.003019577	-0.3428514	-1.75375987	162	D4_G5
GO_SKELETAL_SYSTEM_MORPHOGENESIS	Development	0.000361141	0.003019577	-0.3290921	-1.75659468	218	D4_G5
GO_PARASYMPATHETIC_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.004997918	0.020251978	-0.4885037	-1.77965561	32	D4_G5
GO_REGULATION_OF_STRIATED_MUSCLE_CELL_DIFFERENTIATION	Development	0.000201613	0.003019577	-0.3819463	-1.78701467	93	D4_G5
GO_POSITIVE_REGULATION_OF_STEM_CELL_DIFFERENTIATION	Development	0.00107778	0.006654862	-0.4076484	-1.79328457	71	D4_G5
GO_VENTRAL_SPINAL_CORD_DEVELOPMENT	Development	0.001355473	0.007432004	-0.4200606	-1.79611215	61	D4_G5
GO_METANEPHROS_DEVELOPMENT	Development	0.000388123	0.003019577	-0.3920873	-1.79896738	85	D4_G5
GO_BRANCHING_INVOLVED_IN_URETERIC_BUD_MORPHOGENESIS	Development	0.001493776	0.007747718	-0.4317084	-1.80163447	56	D4_G5
GO_APPENDAGE_DEVELOPMENT	Development	0.000365631	0.003019577	-0.3363528	-1.80344835	223	D4_G5
GO_LIMB_DEVELOPMENT	Development	0.000365631	0.003019577	-0.3363528	-1.80344835	223	D4_G5
GO_POSITIVE_REGULATION_OF_STRIATED_MUSCLE_CELL_DIFFERENTIATION	Development	0.002320904	0.010890366	-0.4524923	-1.80682961	46	D4_G5
GO_CARTILAGE_DEVELOPMENT_INVOLVED_IN_ENDOCHONDRAL_BONE_MORPHOGENESIS	Development	0.004340392	0.017961835	-0.5179584	-1.81107264	27	D4_G5
GO_DEVELOPMENTAL_GROWTH_INVOLVED_IN_MORPHOGENESIS	Development	0.000254712	0.003019577	-0.3637638	-1.81942555	138	D4_G5
GO_REGULATION_OF_MYOTUBE_DIFFERENTIATION	Development	0.000508302	0.003730747	-0.4268073	-1.82495997	61	D4_G5
GO_EMBRYONIC_SKELETAL_SYSTEM_MORPHOGENESIS	Development	0.000235294	0.003019577	-0.3748334	-1.82856515	120	D4_G5
GO_DORSAL_VENTRAL_PATTERN_FORMATION	Development	0.000226193	0.003019577	-0.3775688	-1.83386199	116	D4_G5
GO_ANTERIOR_POSTERIOR_PATTERN_SPECIFICATION	Development	0.000374392	0.003019577	-0.3413481	-1.83406634	228	D4_G5
GO_CORPUS_CALLOSUM_DEVELOPMENT	Development	0.002927478	0.012653212	-0.5225492	-1.8429573	28	D4_G5
GO_OSTEOBLAST_DIFFERENTIATION	Development	0.000307125	0.003019577	-0.3563633	-1.84388911	177	D4_G5
GO_NEGATIVE_REGULATION_OF_DEVELOPMENTAL_GROWTH	Development	0.000218914	0.003019577	-0.3858655	-1.84537964	107	D4_G5
GO_RETINA_VASCULATURE_DEVELOPMENT_IN_CAMERA_TYPE_EYE	Development	0.001293475	0.0072922	-0.4879184	-1.84949685	37	D4_G5
GO_PALATE_DEVELOPMENT	Development	0.000241663	0.003019577	-0.3766934	-1.85206012	125	D4_G5
GO_CHONDROCYTE_DEVELOPMENT	Development	0.001293475	0.0072922	-0.4887986	-1.85283323	37	D4_G5
GO_POSITIVE_REGULATION_OF_CARTILAGE_DEVELOPMENT	Development	0.002465416	0.011167691	-0.512765	-1.85715383	31	D4_G5
GO_POSITIVE_REGULATION_OF_MYOTUBE_DIFFERENTIATION	Development	0.002478476	0.011167691	-0.5447989	-1.86018507	25	D4_G5
GO_NOTOCHORD_DEVELOPMENT	Development	0.001223803	0.007105363	-0.4680819	-1.8624003	45	D4_G5
GO_SYMPATHETIC_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.001425517	0.00770175	-0.5004883	-1.88278578	36	D4_G5
GO_DEVELOPMENTAL_CELL_GROWTH	Development	0.000215843	0.003019577	-0.3970445	-1.88573647	103	D4_G5
GO_CARDIAC_SEPTUM_MORPHOGENESIS	Development	0.000508302	0.003730747	-0.4415685	-1.8880765	61	D4_G5
GO_VENTRICULAR_SEPTUM_MORPHOGENESIS	Development	0.001155902	0.006812818	-0.4950192	-1.89012368	38	D4_G5
GO_KIDNEY_EPITHELIUM_DEVELOPMENT	Development	0.000279564	0.003019577	-0.3720213	-1.8947585	158	D4_G5
GO_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION	Development	0.000250313	0.003019577	-0.3823129	-1.90066873	133	D4_G5
GO_MESONEPHRIC_TUBULE_MORPHOGENESIS	Development	0.000342524	0.003019577	-0.4443122	-1.90447893	62	D4_G5
GO_BRANCHING_MORPHOGENESIS_OF_AN_EPITHELIAL_TUBE	Development	0.000343879	0.003019577	-0.3605497	-1.90551838	203	D4_G5

GO_NEURAL_CREST_CELL_DIFFERENTIATION	Development	0.00019988	0.003019577	-0.4080734	-1.90636451	92	D4_G5
GO_NEPHRON_EPITHELIUM_DEVELOPMENT	Development	0.000222025	0.003019577	-0.3968306	-1.91310857	111	D4_G5
GO_CELL_DIFFERENTIATION_IN_SPINAL_CORD	Development	0.000357398	0.003019577	-0.4376095	-1.91367564	69	D4_G5
GO_SPINAL_CORD_PATTERNING	Development	0.001356484	0.007432004	-0.5331797	-1.91485671	30	D4_G5
GO_AUTONOMIC_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.000333834	0.003019577	-0.4537845	-1.91636032	58	D4_G5
GO_EMBRYONIC_SKELETAL_SYSTEM_DEVELOPMENT	Development	0.000271518	0.003019577	-0.3770918	-1.918136	154	D4_G5
GO_REGULATION_OF_EPITHELIAL_TO_MESENCHYMAL_TRANSITION	Development	0.000235294	0.003019577	-0.3939558	-1.9218506	120	D4_G5
GO_CONNECTIVE_TISSUE_DEVELOPMENT	Development	0.000350385	0.003019577	-0.362377	-1.92703522	211	D4_G5
GO_PERICARDIUM_DEVELOPMENT	Development	0.001048355	0.006577585	-0.5594084	-1.93432677	26	D4_G5
GO_CARTILAGE_DEVELOPMENT	Development	0.000273973	0.003019577	-0.3823924	-1.94443173	155	D4_G5
GO_PATTERNING_OF_BLOOD_VESSELS	Development	0.000176585	0.003019577	-0.4474919	-1.94936511	67	D4_G5
GO_CRANIAL_NERVE_MORPHOGENESIS	Development	0.000619387	0.004154163	-0.4825091	-1.95248588	48	D4_G5
GO_NEPHRON_DEVELOPMENT	Development	0.000267594	0.003019577	-0.3863422	-1.95988836	151	D4_G5
GO_DENDRITE_DEVELOPMENT	Development	0.000251762	0.003019577	-0.3953671	-1.96680457	134	D4_G5
GO_MESENCHYME_MORPHOGENESIS	Development	0.000309215	0.003019577	-0.4923352	-1.98019462	47	D4_G5
GO_CARDIAC_EPITHELIAL_TO_MESENCHYMAL_TRANSITION	Development	0.000537851	0.003804075	-0.5578144	-1.98501825	29	D4_G5
GO_INNER_EAR_MORPHOGENESIS	Development	0.000265322	0.003019577	-0.3961442	-2.00594016	149	D4_G5
GO_NEURON_FATE_COMMITMENT	Development	0.000184809	0.003019577	-0.4473987	-2.0068527	77	D4_G5
GO_DENDRITE_MORPHOGENESIS	Development	0.000186254	0.003019577	-0.4535562	-2.04921545	79	D4_G5
GO_KIDNEY_MORPHOGENESIS	Development	0.00019972	0.003019577	-0.4412979	-2.05403076	91	D4_G5
GO_BONE TRABECULA MORPHOGENESIS	Development	0.000277662	0.003019577	-0.5676173	-2.06787235	32	D4_G5
GO TRABECULA MORPHOGENESIS	Development	0.000176585	0.003019577	-0.4751232	-2.06973251	67	D4_G5
GO_OSTEOBLAST_DEVELOPMENT	Development	0.000130446	0.003019577	-0.6335772	-2.16331341	25	D4_G5
GO_EAR_MORPHOGENESIS	Development	0.000295683	0.003019577	-0.4200961	-2.16341317	169	D4_G5
GO_NEGATIVE_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION	Development	0.000158655	0.003019577	-0.5273444	-2.16366711	51	D4_G5
GO_SPINAL_CORD_DEVELOPMENT	Development	0.000254712	0.003019577	-0.4360577	-2.18101547	138	D4_G5
GO_RENAL_TUBULE_DEVELOPMENT	Development	0.000220167	0.003019577	-0.4636053	-2.22759975	109	D4_G5
GO_MITOCHONDRION_MORPHOGENESIS	Development	0.007965686	0.019991303	0.52585175	1.626555657	31	D4_G6
GO_PLATELET_MORPHOGENESIS	Development	0.023382307	0.049976469	0.50551577	1.52938877	28	D4_G6
GO_BLASTOCYST_DEVELOPMENT	Development	0.01696248	0.038587163	0.43315018	1.49579537	60	D4_G6
GO_NEGATIVE_REGULATION_OF_CELL_MORPHOGENESIS_INVOLVED_IN_DIFFERENTIATION	Development	0.022556391	0.04904891	-0.2250052	-1.26251898	175	D4_G6
GO_SKELETAL_MUSCLE_ORGAN_DEVELOPMENT	Development	0.02027027	0.045057915	-0.2360454	-1.29509911	148	D4_G6
GO_REGULATION_OF_MUSCLE_CELL_DIFFERENTIATION	Development	0.013192612	0.031102583	-0.2313743	-1.30463009	180	D4_G6
GO_METENCEPHALON_DEVELOPMENT	Development	0.011342155	0.027098824	-0.2368491	-1.309741	156	D4_G6
GO_RETINA_DEVELOPMENT_IN_CAMERA_TYPE_EYE	Development	0.013333333	0.03124498	-0.2328151	-1.31149955	181	D4_G6
GO_MAMMARY_GLAND_DEVELOPMENT	Development	0.01453958	0.033466844	-0.2437404	-1.33395027	145	D4_G6
GO_CARDIAC_VENTRICLE_DEVELOPMENT	Development	0.011342155	0.027098824	-0.2443753	-1.35135943	156	D4_G6
GO_HINDBRAIN_DEVELOPMENT	Development	0.003787879	0.01227904	-0.2374684	-1.36189581	206	D4_G6
GO_ENDOTHELIAL_CELL_DIFFERENTIATION	Development	0.0136	0.031679042	-0.2664481	-1.37511651	96	D4_G6
GO_REGULATION_OF_STEM_CELL_DIFFERENTIATION	Development	0.007371007	0.018740666	-0.2474307	-1.38405607	174	D4_G6
GO_REGULATION_OF_EMBRYONIC_DEVELOPMENT	Development	0.009107468	0.022565638	-0.2539553	-1.39377876	152	D4_G6
GO_GLIAL_CELL_DEVELOPMENT	Development	0.011355034	0.027098824	-0.2727072	-1.39875318	93	D4_G6
GO_POSITIVE_REGULATION_OF_CELL_MORPHOGENESIS_INVOLVED_IN_DIFFERENTIATION	Development	0.00591716	0.01598455	-0.2438658	-1.42870005	238	D4_G6
GO_AXIS_SPECIFICATION	Development	0.004659832	0.013328491	-0.2755149	-1.44033903	106	D4_G6
GO_REGULATION_OF_GASTRULATION	Development	0.018412439	0.041401379	-0.3185922	-1.45469459	53	D4_G6
GO_BONE_DEVELOPMENT	Development	0.003773585	0.01227904	-0.2548797	-1.45702361	205	D4_G6
GO_POSITIVE_REGULATION_OF_EPITHELIAL_TO_MESENCHYMAL_TRANSITION	Development	0.014048531	0.03252904	-0.3155386	-1.46089493	56	D4_G6
GO_THYMUS_DEVELOPMENT	Development	0.015445939	0.035343943	-0.3050694	-1.46438492	65	D4_G6
GO_AORTA_DEVELOPMENT	Development	0.006661732	0.017276092	-0.2876155	-1.46786602	91	D4_G6
GO_OUTFLOW_TRACT_MORPHOGENESIS	Development	0.009369144	0.02306707	-0.2956715	-1.46977782	79	D4_G6
GO_NEGATIVE_REGULATION_OF_EMBRYONIC_DEVELOPMENT	Development	0.017363852	0.039270571	-0.3262551	-1.48101008	51	D4_G6
GO_HINDLIMB_MORPHOGENESIS	Development	0.022822244	0.04904891	-0.3477337	-1.49339328	40	D4_G6

GO_EMBRYONIC_DIGESTIVE_TRACT_DEVELOPMENT	Development	0.022787318	0.04904891	-0.3441244	-1.49728415	42	D4_G6
GO_SOMITE_DEVELOPMENT	Development	0.001885014	0.007843578	-0.2868025	-1.49989058	107	D4_G6
GO_DENDRITIC_SPINE_DEVELOPMENT	Development	0.022404544	0.04904891	-0.3535424	-1.50611026	39	D4_G6
GO_MESODERM_MORPHOGENESIS	Development	0.004542014	0.013284536	-0.2944923	-1.51049206	93	D4_G6
GO_POSITIVE_REGULATION_OF_STEM_CELL_PROLIFERATION	Development	0.006265664	0.016694133	-0.3023437	-1.51128616	80	D4_G6
GO_CEREBRAL_CORTEX_DEVELOPMENT	Development	0.002016129	0.008002798	-0.2720182	-1.51685964	163	D4_G6
GO_EMBRYONIC_PATTERN_SPECIFICATION	Development	0.006443299	0.016821767	-0.3041908	-1.51725901	81	D4_G6
GO_MAMMARY_GLAND_DUCT_MORPHOGENESIS	Development	0.012461059	0.029557025	-0.3370856	-1.51829801	50	D4_G6
GO_CARDIAC_CHAMBER_MORPHOGENESIS	Development	0.001689189	0.007466984	-0.2786416	-1.52880962	148	D4_G6
GO_GASTRULATION	Development	0.003144654	0.011020454	-0.2702362	-1.53498556	195	D4_G6
GO_POST_ANAL_TAIL_MORPHOGENESIS	Development	0.022638092	0.04904891	-0.3694868	-1.53886542	36	D4_G6
GO_REGULATION_OF_HEART_MORPHOGENESIS	Development	0.02267231	0.04904891	-0.3658007	-1.5400016	37	D4_G6
GO_CRANIAL_SKELETAL_SYSTEM_DEVELOPMENT	Development	0.004719764	0.013401374	-0.3170308	-1.55584173	75	D4_G6
GO_CARDIAC_SEPTUM_DEVELOPMENT	Development	0.001253133	0.006770398	-0.2903259	-1.56161519	127	D4_G6
GO_PANCREAS_DEVELOPMENT	Development	0.003272251	0.011269091	-0.3130211	-1.56431144	82	D4_G6
GO_REGULATION_OF_KIDNEY_DEVELOPMENT	Development	0.005108557	0.013994568	-0.3387051	-1.56815246	56	D4_G6
GO_EXOCRINE_SYSTEM_DEVELOPMENT	Development	0.007014467	0.018070383	-0.3369611	-1.57144868	58	D4_G6
GO_CARDIAC_CHAMBER_DEVELOPMENT	Development	0.004115226	0.012704945	-0.2753751	-1.58302642	213	D4_G6
GO_EPITHELIAL_TO_MESENCHYMAL_TRANSITION	Development	0.004002287	0.012657639	-0.3230728	-1.58396803	74	D4_G6
GO_REGULATION_OF_EPITHELIAL_TO_MESENCHYMAL_TRANSITION	Development	0.001132503	0.006770398	-0.2972536	-1.5857988	120	D4_G6
GO_REGULATION_OF_GLIAL_CELL_DIFFERENTIATION	Development	0.001249219	0.006770398	-0.3204183	-1.5927939	79	D4_G6
GO_EMBRYONIC_FORELIMB_MORPHOGENESIS	Development	0.018744675	0.041906198	-0.3933359	-1.60003521	33	D4_G6
GO_GLOMERULUS_DEVELOPMENT	Development	0.003997716	0.012657639	-0.3291477	-1.60069939	72	D4_G6
GO_EMBRYONIC_CAMERA_TYPE_EYE_DEVELOPMENT	Development	0.005319149	0.014469573	-0.3519422	-1.60697082	53	D4_G6
GO_NEURAL_TUBE_DEVELOPMENT	Development	0.004329004	0.01285483	-0.2783761	-1.60722359	219	D4_G6
GO_EMBRYONIC_CAMERA_TYPE_EYE_MORPHOGENESIS	Development	0.009964642	0.024378903	-0.3767635	-1.61806607	40	D4_G6
GO_MAMMARY_GLAND_EPITHELIUM_DEVELOPMENT	Development	0.001308901	0.006788831	-0.3239645	-1.61900049	82	D4_G6
GO_MESODERM_DEVELOPMENT	Development	0.001506024	0.007205928	-0.2987099	-1.62468368	139	D4_G6
GO_NEGATIVE_REGULATION_OF_VASCULATURE_DEVELOPMENT	Development	0.000748503	0.006770398	-0.3177368	-1.62617592	92	D4_G6
GO_NERVE_DEVELOPMENT	Development	0.000980392	0.006770398	-0.3132984	-1.63416639	108	D4_G6
GO_NEURAL_TUBE_PATTERNING	Development	0.004484305	0.013215111	-0.3671998	-1.63849235	48	D4_G6
GO_REGULATION_OF_CHONDROCYTE_DIFFERENTIATION	Development	0.00381971	0.012279893	-0.3663451	-1.64357953	49	D4_G6
GO_PALLIUM_DEVELOPMENT	Development	0.00617284	0.016560238	-0.2822271	-1.64933669	241	D4_G6
GO_REGULATION_OF_OLIGODENDROCYTE_DIFFERENTIATION	Development	0.011262596	0.027098824	-0.4002956	-1.65582516	35	D4_G6
GO_GLAND_MORPHOGENESIS	Development	0.001253133	0.006770398	-0.3079232	-1.65626849	127	D4_G6
GO_OLIGODENDROCYTE_DEVELOPMENT	Development	0.006395153	0.016808882	-0.3790309	-1.65697932	43	D4_G6
GO_POSITIVE_REGULATION_OF_OSTEOLAST_DIFFERENTIATION	Development	0.003037975	0.010743383	-0.3459693	-1.66700998	66	D4_G6
GO_ENDOCARDIAL_CUSHION_DEVELOPMENT	Development	0.00422982	0.012755039	-0.3795138	-1.67105615	45	D4_G6
GO_POSITIVE_REGULATION_OF_KIDNEY_DEVELOPMENT	Development	0.004287599	0.012829815	-0.392348	-1.69316033	41	D4_G6
GO_EMBRYONIC_CRANIAL_SKELETON_MORPHOGENESIS	Development	0.002968827	0.010693276	-0.3549366	-1.69641049	64	D4_G6
GO_LENS_FIBER_CELL_DIFFERENTIATION	Development	0.006311139	0.016700906	-0.3982734	-1.6966671	39	D4_G6
GO_LUNG_ALVEOLUS_DEVELOPMENT	Development	0.003504673	0.011752739	-0.3773608	-1.69970528	50	D4_G6
GO_NEGATIVE_REGULATION_OF_DEVELOPMENTAL_GROWTH	Development	0.000942507	0.006770398	-0.3250129	-1.69971929	107	D4_G6
GO_GLANDULAR_EPITHELIAL_CELL_DIFFERENTIATION	Development	0.002873563	0.010446879	-0.3851742	-1.70705632	46	D4_G6
GO_DIGESTIVE_SYSTEM_DEVELOPMENT	Development	0.003003003	0.010717139	-0.3017701	-1.71022603	189	D4_G6
GO_GLIAL_CELL_DIFFERENTIATION	Development	0.002277904	0.008602959	-0.3071342	-1.72119046	171	D4_G6
GO_NEURAL_RETINA_DEVELOPMENT	Development	0.001518987	0.007205928	-0.357675	-1.72341214	66	D4_G6
GO_POSITIVE_REGULATION_OF_BIOMINERAL_TISSUE_DEVELOPMENT	Development	0.007887818	0.019924423	-0.4211084	-1.72584836	34	D4_G6
GO_CHONDROCYTE_DIFFERENTIATION	Development	0.000595238	0.006770398	-0.3505849	-1.72726851	76	D4_G6
GO_ARTERY_DEVELOPMENT	Development	0.001278772	0.006788831	-0.32131	-1.73104275	128	D4_G6
GO_REGULATION_OF_STEM_CELL_PROLIFERATION	Development	0.000942507	0.006770398	-0.3315613	-1.73396564	107	D4_G6
GO_OSTEOCLAST_DIFFERENTIATION	Development	0.00330251	0.011269091	-0.4000134	-1.74045691	42	D4_G6



GO_CARDIAC_EPITHELIAL_TO_MESENCHYMAL_TRANSITION	Development	0.009020619	0.022493722	-0.4435882	-1.74925616	29	D4_G6
GO_ENDOCRINE_SYSTEM_DEVELOPMENT	Development	0.001297017	0.006788831	-0.3259405	-1.75410298	129	D4_G6
GO_POSITIVE_REGULATION_OF_MESENCHYMAL_CELL_PROLIFERATION	Development	0.001383604	0.006926638	-0.4007681	-1.75763391	44	D4_G6
GO_METANEPHROS_MORPHOGENESIS	Development	0.007332971	0.018740666	-0.4390586	-1.7602742	31	D4_G6
GO_POSITIVE_REGULATION_OF_STEM_CELL_DIFFERENTIATION	Development	0.001094092	0.006770398	-0.361624	-1.76051607	71	D4_G6
GO_RETINA_VASCULATURE_DEVELOPMENT_IN_CAMERA_TYPE_EYE	Development	0.00362757	0.012060894	-0.4184372	-1.76159815	37	D4_G6
GO_OLFACTORY_LOBE_DEVELOPMENT	Development	0.001636661	0.007317945	-0.3893146	-1.77761393	53	D4_G6
GO_SMOOTH_MUSCLE_TISSUE_DEVELOPMENT	Development	0.002208899	0.008456154	-0.4181295	-1.78125525	39	D4_G6
GO_RETINA_MORPHOGENESIS_IN_CAMERA_TYPE_EYE	Development	0.000909918	0.006770398	-0.3808846	-1.79098567	60	D4_G6
GO_REGULATION_OF_MESENCHYMAL_CELL_PROLIFERATION	Development	0.00159109	0.00730736	-0.3935019	-1.79448292	52	D4_G6
GO_DEVELOPMENTAL_GROWTH_INVOLVED_IN_MORPHOGENESIS	Development	0.001481481	0.007203704	-0.3303798	-1.79781712	138	D4_G6
GO_REGULATION_OF_ASTROCYTE_DIFFERENTIATION	Development	0.0016072	0.00730736	-0.4200862	-1.80412186	40	D4_G6
GO_SKIN_EPIDERMIS_DEVELOPMENT	Development	0.000595238	0.006770398	-0.3667457	-1.80689022	76	D4_G6
GO_DEVELOPMENTAL_CELL_GROWTH	Development	0.000888099	0.006770398	-0.3501523	-1.82736476	103	D4_G6
GO_DIGESTIVE_TRACT_MORPHOGENESIS	Development	0.000568505	0.006770398	-0.3742788	-1.83058056	73	D4_G6
GO_EMBRYONIC_EYE_MORPHOGENESIS	Development	0.001168224	0.006770398	-0.4070244	-1.8333157	50	D4_G6
GO_HIPPOCAMPUS_DEVELOPMENT	Development	0.000942507	0.006770398	-0.3513519	-1.83746451	107	D4_G6
GO_HEART TRABECULA MORPHOGENESIS	Development	0.004073873	0.012677892	-0.4591645	-1.84088246	31	D4_G6
GO_LIMBIC_SYSTEM_DEVELOPMENT	Development	0.001567398	0.00730736	-0.3379869	-1.8464654	142	D4_G6
GO_OSTEOBLAST_DIFFERENTIATION	Development	0.00255102	0.009469712	-0.3292715	-1.85120339	177	D4_G6
GO_VENTRICULAR_SEPTUM_DEVELOPMENT	Development	0.000537634	0.006770398	-0.3819466	-1.85875467	70	D4_G6
GO_LENS_DEVELOPMENT_IN_CAMERA_TYPE_EYE	Development	0.00064433	0.006770398	-0.3728678	-1.85980978	81	D4_G6
GO_THYROID_GLAND_DEVELOPMENT	Development	0.003455084	0.011687197	-0.4839222	-1.86678898	27	D4_G6
GO_APPENDAGE_DEVELOPMENT	Development	0.004651163	0.013328491	-0.3214503	-1.87641958	223	D4_G6
GO_LIMB_DEVELOPMENT	Development	0.004651163	0.013328491	-0.3214503	-1.87641958	223	D4_G6
GO_BONE_MORPHOGENESIS	Development	0.000782473	0.006770398	-0.3643526	-1.87771642	95	D4_G6
GO_SKELETAL_MUSCLE_CELL_DIFFERENTIATION	Development	0.000438404	0.006770398	-0.403202	-1.88036902	58	D4_G6
GO_PROXIMAL_DISTAL_PATTERN_FORMATION	Development	0.002556092	0.009469712	-0.4638809	-1.88700234	33	D4_G6
GO_MORPHOGENESIS_OF_AN_EPITHELIAL_SHEET	Development	0.000613874	0.006770398	-0.3802519	-1.88754178	78	D4_G6
GO_ARTERY_MORPHOGENESIS	Development	0.00064433	0.006770398	-0.3797855	-1.89431434	81	D4_G6
GO_SMOOTH_MUSCLE_CELL_DIFFERENTIATION	Development	0.001249219	0.006770398	-0.4495145	-1.90042925	38	D4_G6
GO_STEM_CELL_DIFFERENTIATION	Development	0.004761905	0.01342305	-0.3264141	-1.90085632	224	D4_G6
GO_EYE_MORPHOGENESIS	Development	0.003278689	0.011269091	-0.3358531	-1.90601583	197	D4_G6
GO_AORTA_MORPHOGENESIS	Development	0.001145913	0.006770398	-0.4255973	-1.90940974	49	D4_G6
GO_DIENCEPHALON_DEVELOPMENT	Development	0.00081367	0.006770398	-0.370786	-1.91828786	97	D4_G6
GO_DENDRITE_DEVELOPMENT	Development	0.001375516	0.006926638	-0.3549243	-1.92687547	134	D4_G6
GO_FORELIMB_MORPHOGENESIS	Development	0.001249219	0.006770398	-0.455828	-1.92712118	38	D4_G6
GO_CORPUS_CALLOSUM_DEVELOPMENT	Development	0.002745196	0.010074351	-0.4936209	-1.92967267	28	D4_G6
GO_MORPHOGENESIS_OF_A_BRANCHING_STRUCTURE	Development	0.004926108	0.013590469	-0.3296413	-1.92985854	229	D4_G6
GO_ENDOCARDIAL_CUSHION_MORPHOGENESIS	Development	0.002113048	0.008219757	-0.4869593	-1.93968368	30	D4_G6
GO_CRANIAL_NERVE_DEVELOPMENT	Development	0.000613874	0.006770398	-0.3907728	-1.93976681	78	D4_G6
GO_CAMERA_TYPE_EYE_MORPHOGENESIS	Development	0.001615509	0.00730736	-0.3554096	-1.94509735	145	D4_G6
GO_METANEPHRIC_NEPHRON_DEVELOPMENT	Development	0.001901141	0.007843578	-0.4887854	-1.95963875	31	D4_G6
GO_CHONDROCYTE_DEVELOPMENT	Development	0.000906892	0.006770398	-0.4661164	-1.96232516	37	D4_G6
GO_CENTRAL_NERVOUS_SYSTEM_NEURON_DEVELOPMENT	Development	0.001203369	0.006770398	-0.3654016	-1.96371638	124	D4_G6
GO_MESENCHYME_DEVELOPMENT	Development	0.004065041	0.012677892	-0.3418134	-1.97058213	215	D4_G6
GO_CARDIAC_SEPTUM_MORPHOGENESIS	Development	0.000459137	0.006770398	-0.4169653	-1.97312389	61	D4_G6
GO_COCHLEA_MORPHOGENESIS	Development	0.001955854	0.007843578	-0.489838	-1.97739457	32	D4_G6
GO_BONE TRABECULA MORPHOGENESIS	Development	0.001955854	0.007843578	-0.4934245	-1.99187279	32	D4_G6
GO_REGULATION_OF_CARTILAGE_DEVELOPMENT	Development	0.000494805	0.006770398	-0.4194287	-2.00464893	64	D4_G6
GO_FOREBRAIN_NEURON_DEVELOPMENT	Development	0.000445038	0.006770398	-0.427945	-2.00585535	59	D4_G6
GO_PATTERNING_OF_BLOOD_VESSELS	Development	0.000514933	0.006770398	-0.4157829	-2.01174912	67	D4_G6

GO_PARASYMPATHETIC_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.001117631	0.006770398	-0.4984747	-2.0122593	32	D4_G6
GO_HEART_VALVE_DEVELOPMENT	Development	0.00032144	0.006770398	-0.469626	-2.01687753	40	D4_G6
GO_LENS_MORPHOGENESIS_IN_CAMERA_TYPE_EYE	Development	0.000876424	0.006770398	-0.4924683	-2.01830593	34	D4_G6
GO_CONNECTIVE_TISSUE_DEVELOPMENT	Development	0.004201681	0.012755039	-0.3536661	-2.0296285	211	D4_G6
GO_ANTERIOR_POSTERIOR_PATTERN_SPECIFICATION	Development	0.004878049	0.013590469	-0.3478186	-2.03013443	228	D4_G6
GO_OSTEOBLAST_DEVELOPMENT	Development	0.000958773	0.006770398	-0.5401276	-2.03204842	25	D4_G6
GO_CARTILAGE_DEVELOPMENT_INVOLVED_IN_ENDOCHONDRAL_BONE_MORPHOGENESIS	Development	0.000987167	0.006770398	-0.5282307	-2.0377146	27	D4_G6
GO_SKELETAL_SYSTEM_MORPHOGENESIS	Development	0.004201681	0.012755039	-0.3530483	-2.04265867	218	D4_G6
GO_ENDOCHONDRAL_BONE_MORPHOGENESIS	Development	0.000425713	0.006770398	-0.4434878	-2.05328035	56	D4_G6
GO_CELL_FATE_COMMITMENT	Development	0.004926108	0.013590469	-0.3516573	-2.05874971	229	D4_G6
GO_PALATE_DEVELOPMENT	Development	0.00122549	0.006770398	-0.3827531	-2.0590952	125	D4_G6
GO_NEURAL_CREST_CELL_DIFFERENTIATION	Development	0.000748503	0.006770398	-0.4076537	-2.0863704	92	D4_G6
GO_MIDDLE_EAR_MORPHOGENESIS	Development	0.000731172	0.006770398	-0.5493154	-2.08976373	26	D4_G6
GO_MESENCHYMAL_CELL_DIFFERENTIATION	Development	0.002057613	0.008084965	-0.3760559	-2.09234088	162	D4_G6
GO_NOTOCHORD_DEVELOPMENT	Development	0.000352485	0.006770398	-0.4759586	-2.09571727	45	D4_G6
GO_BRANCHING_MORPHOGENESIS_OF_AN_EPITHELIAL_TUBE	Development	0.003703704	0.012209667	-0.3669218	-2.10298649	203	D4_G6
GO_MESONEPHROS_DEVELOPMENT	Development	0.000888099	0.006770398	-0.402974	-2.10302914	103	D4_G6
GO_INNER_EAR_MORPHOGENESIS	Development	0.001727116	0.007548854	-0.383454	-2.10393479	149	D4_G6
GO TRABECULA MORPHOGENESIS	Development	0.000514933	0.006770398	-0.4349237	-2.10436076	67	D4_G6
GO_DENDRITE_MORPHOGENESIS	Development	0.00062461	0.006770398	-0.4283652	-2.12939625	79	D4_G6
GO_MESENCHYME_MORPHOGENESIS	Development	0.000366838	0.006770398	-0.4792182	-2.13145752	47	D4_G6
GO_PERICARDIUM_DEVELOPMENT	Development	0.000731172	0.006770398	-0.5608436	-2.13362046	26	D4_G6
GO_OTIC_VESICLE_DEVELOPMENT	Development	0.000584283	0.006770398	-0.527152	-2.16045142	34	D4_G6
GO_SYMPATHETIC_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.000905524	0.006770398	-0.5253425	-2.18798423	36	D4_G6
GO_CARTILAGE_DEVELOPMENT	Development	0.001872659	0.007843578	-0.3982051	-2.19408481	155	D4_G6
GO_OLIGODENDROCYTE_DIFFERENTIATION	Development	0.00062461	0.006770398	-0.4439874	-2.20705369	79	D4_G6
GO_KIDNEY_EPITHELIUM_DEVELOPMENT	Development	0.001919386	0.007843578	-0.3975159	-2.20864626	158	D4_G6
GO_CELL_FATE_SPECIFICATION	Development	0.00064433	0.006770398	-0.4433529	-2.21137921	81	D4_G6
GO_NEPHRON_EPITHELIUM_DEVELOPMENT	Development	0.001035197	0.006770398	-0.4227926	-2.21631635	111	D4_G6
GO_BRANCHING_INVOLVED_IN_URETERIC_BUD_MORPHOGENESIS	Development	0.000425713	0.006770398	-0.4804393	-2.22436006	56	D4_G6
GO_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION	Development	0.001388889	0.006926638	-0.4114053	-2.22714345	133	D4_G6
GO_VENTRICULAR_SEPTUM_MORPHOGENESIS	Development	0.00062461	0.006770398	-0.5279607	-2.23207928	38	D4_G6
GO_NEGATIVE_REGULATION_OF_OSTEOBLAST_DIFFERENTIATION	Development	0.000394633	0.006770398	-0.4933954	-2.23973057	51	D4_G6
GO_COCHLEA_DEVELOPMENT	Development	0.000459137	0.006770398	-0.4768063	-2.25629758	61	D4_G6
GO_POSITIVE_REGULATION_OF_CARTILAGE_DEVELOPMENT	Development	0.000271592	0.006770398	-0.5629245	-2.25687716	31	D4_G6
GO_NEPHRON_DEVELOPMENT	Development	0.001782531	0.007704496	-0.4131031	-2.26255665	151	D4_G6
GO_EAR_MORPHOGENESIS	Development	0.002217295	0.008456154	-0.4080501	-2.28103943	169	D4_G6
GO_SPINAL_CORD_MOTOR_NEURON_DIFFERENTIATION	Development	0.000352485	0.006770398	-0.5205123	-2.29189372	45	D4_G6
GO_MESONEPHRIC_TUBULE_MORPHOGENESIS	Development	0.000467727	0.006770398	-0.4981703	-2.36999568	62	D4_G6
GO_DORSAL_VENTRAL_PATTERN_FORMATION	Development	0.001081081	0.006770398	-0.4478696	-2.3711267	116	D4_G6
GO_AUTONOMIC_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.000438404	0.006770398	-0.5122257	-2.38881084	58	D4_G6
GO_EMBRYONIC_SKELETAL_SYSTEM_DEVELOPMENT	Development	0.001879699	0.007843578	-0.4363513	-2.4009543	154	D4_G6
GO_EMBRYONIC_SKELETAL_SYSTEM_MORPHOGENESIS	Development	0.001132503	0.006770398	-0.4519965	-2.41132654	120	D4_G6
GO_CRANIAL_NERVE_MORPHOGENESIS	Development	0.000373692	0.006770398	-0.5420315	-2.41861325	48	D4_G6
GO_NEURON_FATE_SPECIFICATION	Development	0.000296384	0.006770398	-0.5937086	-2.4587921	35	D4_G6
GO_SPINAL_CORD_PATTERNING	Development	0.000264131	0.006770398	-0.6167076	-2.45650423	30	D4_G6
GO_KIDNEY_MORPHOGENESIS	Development	0.000740192	0.006770398	-0.4927361	-2.51471393	91	D4_G6
GO_METANEPHROS_DEVELOPMENT	Development	0.000683527	0.006770398	-0.5010399	-2.51836929	85	D4_G6
GO_VENTRAL_SPINAL_CORD_DEVELOPMENT	Development	0.000459137	0.006770398	-0.5327883	-2.52121048	61	D4_G6
GO_RENAL_TUBULE_DEVELOPMENT	Development	0.000999001	0.006770398	-0.4919979	-2.57139657	109	D4_G6
GO_NEURON_FATE_COMMITMENT	Development	0.000607903	0.006770398	-0.5215611	-2.57837122	77	D4_G6
GO_SPINAL_CORD_DEVELOPMENT	Development	0.001481481	0.007203704	-0.4787962	-2.60544999	138	D4_G6

GO_CELL_DIFFERENTIATION_IN_SPINAL_CORD	Development	0.000529942	0.006770398	-0.5431976	-2.63996275	69	D4_G6
GO_CELL_DIFFERENTIATION_IN_HINDBRAIN	Development	5.71E-05	0.000888889	0.76107478	2.129628666	34	D4_G7
GO_NEURAL_RETINA_DEVELOPMENT	Development	5.27E-05	0.000888889	0.67777387	2.050803937	66	D4_G7
GO_AUTONOMIC_NERVOUS_SYSTEM_DEVELOPMENT	Development	5.34E-05	0.000888889	0.67044324	2.000758671	58	D4_G7
GO_SPINAL_CORD_DEVELOPMENT	Development	5.03E-05	0.000888889	0.62671497	1.987799675	138	D4_G7
GO_CELL_DIFFERENTIATION_IN_SPINAL_CORD	Development	5.24E-05	0.000888889	0.63486786	1.92932343	69	D4_G7
GO_CRANIAL_NERVE_DEVELOPMENT	Development	5.19E-05	0.000888889	0.62903844	1.929171933	78	D4_G7
GO_SYMPATHETIC_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.000169799	0.002064113	0.67750323	1.91084579	36	D4_G7
GO_VENTRAL_SPINAL_CORD_DEVELOPMENT	Development	5.31E-05	0.000888889	0.63422307	1.903146518	61	D4_G7
GO_NEUROMUSCULAR_JUNCTION_DEVELOPMENT	Development	5.33E-05	0.000888889	0.62971574	1.883550442	59	D4_G7
GO_NEURON_FATE_SPECIFICATION	Development	5.69E-05	0.000888889	0.67012341	1.881979576	35	D4_G7
GO_CRANIAL_NERVE_MORPHOGENESIS	Development	0.000218269	0.00246943	0.64174298	1.876344784	48	D4_G7
GO_REGULATION_OF_DENDRITE_DEVELOPMENT	Development	5.01E-05	0.000888889	0.58407384	1.868948197	178	D4_G7
GO_PHOTORECEPTOR_CELL_DIFFERENTIATION	Development	5.38E-05	0.000888889	0.62737667	1.860693222	55	D4_G7
GO_NERVE_DEVELOPMENT	Development	5.07E-05	0.000888889	0.59274396	1.860398469	108	D4_G7
GO_PERIPHERAL_NERVOUS_SYSTEM_DEVELOPMENT	Development	5.16E-05	0.000888889	0.6027299	1.857732316	83	D4_G7
GO_PHOTORECEPTOR_CELL_DEVELOPMENT	Development	0.000222185	0.00246943	0.64488521	1.852652748	41	D4_G7
GO_EYE_PHOTORECEPTOR_CELL_DIFFERENTIATION	Development	0.000325892	0.003336106	0.62555222	1.8370814	50	D4_G7
GO_CEREBELLAR_PURKINJE_CELL_LAYER_MORPHOGENESIS	Development	0.000713479	0.005905176	0.68309572	1.832544185	26	D4_G7
GO_DENDRITE_MORPHOGENESIS	Development	5.19E-05	0.000888889	0.59608758	1.83062563	79	D4_G7
GO_NEGATIVE_REGULATION_OF_CELL_MORPHOGENESIS_INVOLVED_IN_DIFFERENTIATION	Development	5.01E-05	0.000888889	0.57027903	1.823573476	175	D4_G7
GO_COCHLEA_DEVELOPMENT	Development	0.000159312	0.001999106	0.60769812	1.823551703	61	D4_G7
GO_CEREBELLAR_CORTEX_MORPHOGENESIS	Development	0.000325892	0.003336106	0.6205312	1.822335992	50	D4_G7
GO_SPINAL_CORD_MOTOR_NEURON_DIFFERENTIATION	Development	0.000220058	0.00246943	0.62763354	1.821643697	45	D4_G7
GO_EYE_PHOTORECEPTOR_CELL_DEVELOPMENT	Development	0.000452796	0.004403441	0.64317636	1.814029516	36	D4_G7
GO_PARASYMPATHETIC_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.000634042	0.005582784	0.65213898	1.808414813	32	D4_G7
GO_DENDRITE_DEVELOPMENT	Development	5.04E-05	0.000888889	0.57048879	1.807711939	134	D4_G7
GO_CELL_FATE_SPECIFICATION	Development	0.000103622	0.001389958	0.57911151	1.780535987	81	D4_G7
GO_REGULATION_OF_DENDRITIC_SPINE_DEVELOPMENT	Development	0.000102249	0.001389958	0.57030622	1.774226572	94	D4_G7
GO_NEGATIVE_REGULATION_OF_DEVELOPMENTAL_GROWTH	Development	5.07E-05	0.000888889	0.56352564	1.768115198	107	D4_G7
GO_NEGATIVE_REGULATION_OF_DENDRITE_DEVELOPMENT	Development	0.000660175	0.005582784	0.60888364	1.767223997	45	D4_G7
GO_METENCEPHALON_DEVELOPMENT	Development	5.02E-05	0.000888889	0.55352672	1.763401261	156	D4_G7
GO_RETINA_DEVELOPMENT_IN_CAMERA_TYPE_EYE	Development	5.01E-05	0.000888889	0.54819324	1.755061251	181	D4_G7
GO_REGULATION_OF_DENDRITE_MORPHOGENESIS	Development	5.07E-05	0.000888889	0.55626348	1.747985738	111	D4_G7
GO_RETINA_MORPHOGENESIS_IN_CAMERA_TYPE_EYE	Development	0.000585231	0.005294298	0.58194251	1.743017003	60	D4_G7
GO_CENTRAL_NERVOUS_SYSTEM_NEURON_DEVELOPMENT	Development	5.05E-05	0.000888889	0.55071606	1.740165663	124	D4_G7
GO_POSITIVE_REGULATION_OF_DENDRITE_DEVELOPMENT	Development	0.000152804	0.001981358	0.55577398	1.736772615	101	D4_G7
GO_HIPPOCAMPUS_DEVELOPMENT	Development	0.000101487	0.001389958	0.55115506	1.72930131	107	D4_G7
GO_POSITIVE_REGULATION_OF_DENDRITIC_SPINE_DEVELOPMENT	Development	0.00080928	0.006558538	0.58470847	1.727553278	53	D4_G7
GO_CEREBELLAR_PURKINJE_CELL_LAYER_DEVELOPMENT	Development	0.001418749	0.010413085	0.58884017	1.72166616	48	D4_G7
GO_POSITIVE_REGULATION_OF_CELL_MORPHOGENESIS_INVOLVED_IN_DIFFERENTIATION	Development	5.00E-05	0.000888889	0.53234572	1.71642115	238	D4_G7
GO_HINDBRAIN_DEVELOPMENT	Development	5.01E-05	0.000888889	0.5294398	1.700857935	206	D4_G7
GO_NEURON_FATE_COMMITMENT	Development	0.000415714	0.004146481	0.55238422	1.692191996	77	D4_G7
GO_CEREBELLAR_CORTEX_DEVELOPMENT	Development	0.000519373	0.004927706	0.54885314	1.683254978	78	D4_G7
GO_POSITIVE_REGULATION_OF_DEVELOPMENTAL_GROWTH	Development	5.01E-05	0.000888889	0.52339832	1.680766331	202	D4_G7
GO_HINDBRAIN_MORPHOGENESIS	Development	0.00140948	0.010413085	0.54012398	1.64531947	71	D4_G7
GO_NEGATIVE_REGULATION_OF_FAT_CELL_DIFFERENTIATION	Development	0.005035693	0.03159491	0.56846859	1.641682037	43	D4_G7
GO_OLFACTORY_LOBE_DEVELOPMENT	Development	0.003129215	0.021077389	0.55564402	1.641680776	53	D4_G7
GO_FOREBRAIN_NEURON_DEVELOPMENT	Development	0.003142644	0.021077389	0.54585517	1.632714065	59	D4_G7
GO_DEVELOPMENTAL_CELL_GROWTH	Development	0.001017967	0.007919784	0.51382765	1.607156967	103	D4_G7
GO_EMBRYONIC_EYE_MORPHOGENESIS	Development	0.006789419	0.040016426	0.54547813	1.601924979	50	D4_G7
GO_INNER_EAR_MORPHOGENESIS	Development	0.000301462	0.003257465	0.49698228	1.581193622	149	D4_G7

GO_EYE_MORPHOGENESIS	Development	0.000100155	0.001389958	0.48944086	1.570852086	197	D4_G7
GO_CELL_FATE_COMMITMENT	Development	5.00E-05	0.000888889	0.48422914	1.559140564	229	D4_G7
GO_LIMBIC_SYSTEM_DEVELOPMENT	Development	0.000553153	0.00512325	0.48923413	1.553958115	142	D4_G7
GO_POSITIVE_REGULATION_OF_MUSCLE_CELL_DIFFERENTIATION	Development	0.005369196	0.033152656	0.49121245	1.527184689	93	D4_G7
GO_EAR_MORPHOGENESIS	Development	0.000652087	0.005582784	0.47646156	1.521615999	169	D4_G7
GO_NEURAL_CREST_CELL_DIFFERENTIATION	Development	0.00660218	0.03951151	0.48935826	1.519887875	92	D4_G7
GO_EMBRYONIC_SKELETAL_SYSTEM_MORPHOGENESIS	Development	0.003590029	0.023669851	0.47662966	1.503226835	120	D4_G7
GO_AORTA_DEVELOPMENT	Development	0.008606557	0.047827869	0.48420084	1.502058524	91	D4_G7
GO_DIENCEPHALON_DEVELOPMENT	Development	0.008116386	0.045757596	0.48134328	1.500453905	97	D4_G7
GO_CAMERA_TYPE_EYE_MORPHOGENESIS	Development	0.002412666	0.016759416	0.47151067	1.498792377	145	D4_G7
GO_CARDIAC_SEPTUM_DEVELOPMENT	Development	0.004895034	0.031215875	0.46840512	1.481096942	127	D4_G7
GO_GLIAL_CELL_DIFFERENTIATION	Development	0.002056169	0.014542719	0.45952702	1.468336049	171	D4_G7
GO_ENDOCRINE_SYSTEM_DEVELOPMENT	Development	0.007464945	0.042703877	0.45868663	1.451179752	129	D4_G7
GO_PALLIUM_DEVELOPMENT	Development	0.001100275	0.008392294	0.44580659	1.437870192	241	D4_G7
GO_CARDIAC_CHAMBER_DEVELOPMENT	Development	0.002051641	0.014542719	0.44568136	1.433291634	213	D4_G7
GO_EMBRYONIC_SKELETAL_SYSTEM_DEVELOPMENT	Development	0.007386192	0.042703877	0.44741699	1.424605888	154	D4_G7
GO_OOCYTE_DIFFERENTIATION	Development	0.004660798	0.030217504	-0.3968201	-1.76247704	43	D4_G7
GO_BLASTOCYST_DEVELOPMENT	Development	0.000829187	0.006582733	-0.3671466	-1.78767423	60	D4_G7
GO_REGULATION_OF_CELL_FATE_COMMITMENT	Development	0.005843933	0.035520153	-0.4516309	-1.7942813	29	D4_G7
GO_CELL_DIFFERENTIATION_IN_SPINAL_CORD	Development	9.90E-05	0.002581767	0.62829844	2.740709345	69	D4_G8
GO_SPINAL_CORD_DEVELOPMENT	Development	9.31E-05	0.002581767	0.52177639	2.58001771	138	D4_G8
GO_NEURON_FATE_SPECIFICATION	Development	0.000106191	0.002581767	0.6720585	2.498855889	35	D4_G8
GO_VENTRAL_SPINAL_CORD_DEVELOPMENT	Development	0.000100361	0.002581767	0.57503487	2.449087263	61	D4_G8
GO_NEURAL_RETINA_DEVELOPMENT	Development	9.97E-05	0.002581767	0.56539956	2.444318503	66	D4_G8
GO_NEURON_FATE_COMMITMENT	Development	9.85E-05	0.002581767	0.51805976	2.304589839	77	D4_G8
GO_CELL_FATE_COMMITMENT	Development	8.80E-05	0.002581767	0.42622889	2.269534683	229	D4_G8
GO_RETINA_MORPHOGENESIS_IN_CAMERA_TYPE_EYE	Development	0.000100796	0.002581767	0.52703923	2.235912731	60	D4_G8
GO_SYMPATHETIC_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.000211573	0.004137858	0.58942784	2.20761942	36	D4_G8
GO_SPINAL_CORD_PATTERNING	Development	0.000432807	0.007320079	0.61612271	2.204317434	30	D4_G8
GO_ENDOCRINE_SYSTEM_DEVELOPMENT	Development	9.38E-05	0.002581767	0.44918216	2.195882069	129	D4_G8
GO_ENDOCRINE_PANCREAS_DEVELOPMENT	Development	0.000104712	0.002581767	0.56610243	2.190639046	41	D4_G8
GO_CELL_FATE_SPECIFICATION	Development	9.84E-05	0.002581767	0.48621848	2.183685393	81	D4_G8
GO_AUTONOMIC_NERVOUS_SYSTEM_DEVELOPMENT	Development	0.000101194	0.002581767	0.51783276	2.178077455	58	D4_G8
GO_CELL_DIFFERENTIATION_IN_HINDBRAIN	Development	0.000212743	0.004137858	0.57994956	2.143874495	34	D4_G8
GO_PANCREAS_DEVELOPMENT	Development	9.82E-05	0.002581767	0.47292477	2.129169052	82	D4_G8
GO_CARDIAC_ATRIUM_DEVELOPMENT	Development	0.000209842	0.004137858	0.5495511	2.111244496	40	D4_G8
GO_CEREBELLAR_PURKINJE_CELL_LAYER_MORPHOGENESIS	Development	0.000652671	0.010578701	0.59635349	2.066028305	26	D4_G8
GO_SPINAL_CORD_MOTOR_NEURON_DIFFERENTIATION	Development	0.001341174	0.017390557	0.49002242	1.942400616	45	D4_G8
GO_CRANIAL_NERVE_MORPHOGENESIS	Development	0.001121419	0.016156742	0.48068262	1.942179644	48	D4_G8
GO_PERICARDIUM_DEVELOPMENT	Development	0.003045796	0.03037986	0.55170171	1.911335091	26	D4_G8
GO_CENTRAL_NERVOUS_SYSTEM_NEURON_DEVELOPMENT	Development	0.00018797	0.004137858	0.39129093	1.901854279	124	D4_G8
GO_RETINA_DEVELOPMENT_IN_CAMERA_TYPE_EYE	Development	8.95E-05	0.002581767	0.36793714	1.898602791	181	D4_G8
GO_NEGATIVE_REGULATION_OF_FAT_CELL_DIFFERENTIATION	Development	0.002292622	0.025480855	0.47975781	1.880693033	43	D4_G8
GO_CAMERA_TYPE_EYE_MORPHOGENESIS	Development	9.22E-05	0.002581767	0.37358712	1.863334723	145	D4_G8
GO_DORSAL_VENTRAL_PATTERN_FORMATION	Development	0.000283634	0.00501517	0.38551145	1.85430041	116	D4_G8
GO_GLANDULAR_EPITHELIAL_CELL_DIFFERENTIATION	Development	0.002675172	0.028906723	0.46011169	1.832662991	46	D4_G8
GO_CRANIAL_NERVE_DEVELOPMENT	Development	0.001278647	0.017151501	0.4070015	1.814820212	78	D4_G8
GO_CEREBELLAR_CORTEX_MORPHOGENESIS	Development	0.003485392	0.033589723	0.44178101	1.795063415	50	D4_G8
GO_HINDBRAIN_DEVELOPMENT	Development	8.86E-05	0.002581767	0.34159566	1.794191318	206	D4_G8
GO_EYE_MORPHOGENESIS	Development	0.000266052	0.004928293	0.33957945	1.772347649	197	D4_G8
GO_NEGATIVE_REGULATION_OF_DEVELOPMENTAL_GROWTH	Development	0.00104742	0.016156742	0.37073017	1.758136206	107	D4_G8
GO_PITUITARY_GLAND_DEVELOPMENT	Development	0.00471553	0.04209155	0.4287882	1.742270448	50	D4_G8

GO_EMBRYONIC_SKELETAL_SYSTEM_DEVELOPMENT	Development	0.001193098	0.016575545	0.33083594	1.66400465	154	D4_G8
GO_METENCEPHALON_DEVELOPMENT	Development	0.001554499	0.018896877	0.32644602	1.6466139	156	D4_G8
GO_GLIAL_CELL_DIFFERENTIATION	Development	0.001535543	0.018896877	0.32103385	1.643663166	171	D4_G8
GO_HIPPOCAMPUS_DEVELOPMENT	Development	0.004760998	0.04209155	0.34270293	1.625220953	107	D4_G8
GO_INNER_EAR_MORPHOGENESIS	Development	0.002848479	0.02938244	0.32302246	1.618434357	149	D4_G8
GO_ANTERIOR_POSTERIOR_PATTERN_SPECIFICATION	Development	0.002204974	0.025227501	0.29825496	1.58674261	228	D4_G8
GO_EAR_MORPHOGENESIS	Development	0.003540305	0.033589723	0.31068949	1.586217157	169	D4_G8
GO_REGULATION_OF_CARDIAC_MUSCLE_TISSUE_DEVELOPMENT	Development	0.003912363	0.036235934	-0.4024035	-1.7318723	54	D4_G8
GO_REGULATION_OF_HEMATOPOIETIC_PROGENITOR_CELL_DIFFERENTIATION	Development	0.002870264	0.02938244	-0.4443827	-1.77733099	41	D4_G8
GO_BLASTOCYST_DEVELOPMENT	Development	0.001091162	0.016156742	-0.4134066	-1.8160882	60	D4_G8
GO_POSITIVE_REGULATION_OF_CARDIAC_MUSCLE_TISSUE_DEVELOPMENT	Development	0.002180301	0.025227501	-0.4715215	-1.82620015	36	D4_G8
GO_TRNA_METABOLIC_PROCESS	Metabolism	5.29E-05	0.002877512	0.47135574	2.051504642	171	D4_G1
GO_SNRNA_METABOLIC_PROCESS	Metabolism	5.73E-05	0.002877512	0.49590378	1.969693227	81	D4_G1
KEGG_ALANINE_ASPARTATE_AND_Glutamate_Metabolism	Metabolism	0.000457816	0.006175115	0.59499949	1.926579623	27	D4_G1
GO_CELLULAR_METABOLIC_COMPOUND_SALVAGE	Metabolism	0.000516996	0.006400785	0.56620153	1.874845799	30	D4_G1
REACTOME_METABOLISM_OF_VITAMINS_AND_COFACTORS	Metabolism	0.000304488	0.005845402	0.49940474	1.831197943	50	D4_G1
GO_WATER_SOLUBLE_VITAMIN_METABOLIC_PROCESS	Metabolism	0.000229056	0.005845402	0.46099182	1.831025497	81	D4_G1
GO_PHOSPHATIDYLCHOLINE_METABOLIC_PROCESS	Metabolism	0.000428895	0.006175115	0.50029574	1.81404389	47	D4_G1
GO_SERINE_FAMILY_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.001141046	0.010425011	0.52497627	1.797599793	35	D4_G1
GO_ALPHA_AMINO_ACID_METABOLIC_PROCESS	Metabolism	5.26E-05	0.002877512	0.40799823	1.78793792	184	D4_G1
GO_DICARBOXYLIC_ACID_METABOLIC_PROCESS	Metabolism	0.000283543	0.005845402	0.44465377	1.783961661	86	D4_G1
KEGG_GLYCEROPHOSPHOLIPID_METABOLISM	Metabolism	0.000651813	0.007278581	0.4634042	1.760920166	61	D4_G1
REACTOME_METABOLISM_OF_NON_CODING_RNA	Metabolism	0.000786973	0.007909074	0.4756015	1.756172336	52	D4_G1
GO_STEROL_METABOLIC_PROCESS	Metabolism	0.000277762	0.005845402	0.42256368	1.741046826	105	D4_G1
REACTOME_PURINE_METABOLISM	Metabolism	0.003694581	0.026885982	0.52851556	1.73793862	29	D4_G1
GO_CELLULAR_MODIFIED_AMINO_ACID_METABOLIC_PROCESS	Metabolism	5.29E-05	0.002877512	0.39763338	1.730195999	170	D4_G1
KEGG_CYSTEINE_AND_METHIONINE_METABOLISM	Metabolism	0.004045723	0.026885982	0.51822462	1.728070387	31	D4_G1
GO_MITOCHONDRIAL_RNA_METABOLIC_PROCESS	Metabolism	0.004047023	0.026885982	0.5149483	1.727535114	32	D4_G1
GO_VITAMIN_METABOLIC_PROCESS	Metabolism	0.00027603	0.005845402	0.41135922	1.707372868	111	D4_G1
GO_HEME_METABOLIC_PROCESS	Metabolism	0.006814423	0.037018891	0.53383932	1.697209884	25	D4_G1
KEGG_AMINO_SUGAR_AND_NUCLEOTIDE_SUGAR_METABOLISM	Metabolism	0.003012974	0.024224313	0.46946348	1.695835366	46	D4_G1
GO_ASPARTATE_FAMILY_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.002404858	0.020140684	0.45083193	1.682692611	55	D4_G1
KEGG_GLYCEROLIPID_METABOLISM	Metabolism	0.005127255	0.030772433	0.46815878	1.671911733	43	D4_G1
GO_PIGMENT_METABOLIC_PROCESS	Metabolism	0.004146594	0.026885982	0.45605957	1.667787493	49	D4_G1
GO_Glutamine_FAMILY_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.003897448	0.026885982	0.45429444	1.665789254	50	D4_G1
KEGG_PURINE_METABOLISM	Metabolism	0.00054136	0.006400785	0.38660064	1.640357672	134	D4_G1
GO_ETHANOLAMINE_CONTAINING_COMPOUND_METABOLIC_PROCESS	Metabolism	0.005451529	0.031307351	0.42929378	1.631301736	61	D4_G1
GO_TETRAPYRROLE_METABOLIC_PROCESS	Metabolism	0.00817123	0.041060431	0.44105268	1.612908037	49	D4_G1
GO_NUCLEOSIDE_TRIPHOSPHATE_METABOLIC_PROCESS	Metabolism	0.000154871	0.005845402	0.36010474	1.611942019	237	D4_G1
REACTOME_METABOLISM_OF_NUCLEOTIDES	Metabolism	0.005205287	0.030772433	0.41197983	1.59610267	69	D4_G1
REACTOME_METABOLISM_OF_AMINO_ACIDS_AND_DERIVATIVES	Metabolism	0.000905797	0.008669772	0.36757119	1.587688492	158	D4_G1
GO_REGULATION_OF_CELLULAR_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.009483977	0.046494621	0.4099552	1.570482021	64	D4_G1
KEGG_PYRIMIDINE_METABOLISM	Metabolism	0.008092615	0.041060431	0.37827158	1.533325524	92	D4_G1
GO_MULTI_ORGANISM_METABOLIC_PROCESS	Metabolism	0.005637037	0.031473459	0.32719118	1.44644017	203	D4_G1
GO_MONOSACCHARIDE_METABOLIC_PROCESS	Metabolism	0.01037552	0.049654275	0.3254096	1.423974608	182	D4_G1
GO_MUCOPOLYSACCHARIDE_METABOLIC_PROCESS	Metabolism	0.007312614	0.038679881	-0.2766679	-1.45510219	93	D4_G1
GO_AMINOGLYCAN_METABOLIC_PROCESS	Metabolism	0.001355932	0.011849668	-0.2746125	-1.54258535	137	D4_G1
REACTOME_HEPARAN_SULFATE_HEPARIN_HS_GAG_METABOLISM	Metabolism	0.004669047	0.029327451	-0.3653992	-1.66994458	48	D4_G1
REACTOME_CHONDROITIN_SULFATE_DERMATAN_SULFATE_METABOLISM	Metabolism	0.004078511	0.026885982	-0.3920916	-1.72537323	41	D4_G1
GO_MULTICELLULAR_ORGANISM_METABOLIC_PROCESS	Metabolism	0.000364166	0.006099782	-0.3704505	-1.85002762	72	D4_G1
GO_CHONDROITIN_SULFATE_PROTEOGLYCAN_METABOLIC_PROCESS	Metabolism	0.000730638	0.007729382	-0.4709846	-2.01841738	37	D4_G1
GO_MULTICELLULAR_ORGANISMAL_MACROMOLECULE_METABOLIC_PROCESS	Metabolism	0.000319898	0.005845402	-0.437477	-2.11651489	61	D4_G1

GO_PROTEOGLYCAN_METABOLIC_PROCESS	Metabolism	0.000460829	0.006175115	-0.4659407	-2.45282743	94	D4_G1
GO_MULTICELLULAR_ORGANISM_METABOLIC_PROCESS	Metabolism	0.000116104	0.01174477	0.55770489	2.334701032	72	D4_G2
GO_MULTICELLULAR_ORGANISMAL_MACROMOLECULE_METABOLIC_PROCESS	Metabolism	0.000116863	0.01174477	0.55883257	2.258679692	61	D4_G2
GO_PROTEOGLYCAN_METABOLIC_PROCESS	Metabolism	0.000102669	0.005159138	0.46128086	1.972295481	94	D4_G3
GO_MULTICELLULAR_ORGANISMAL_MACROMOLECULE_METABOLIC_PROCESS	Metabolism	0.002242838	0.030688147	0.4278828	1.693222839	61	D4_G3
GO_HEXOSE_METABOLIC_PROCESS	Metabolism	0.002749681	0.031504362	-0.3204493	-1.48592379	162	D4_G3
REACTOME_INTEGRATION_OF_ENERGY_METABOLISM	Metabolism	0.002821286	0.031504362	-0.3393676	-1.52941016	132	D4_G3
GO_MONOSACCHARIDE_METABOLIC_PROCESS	Metabolism	0.0004879	0.014009702	-0.33388	-1.57360867	182	D4_G3
GO_ALPHA_AMINO_ACID_METABOLIC_PROCESS	Metabolism	9.75E-05	0.005159138	-0.3465376	-1.63646007	184	D4_G3
GO_NUCLEOSIDE_TRIPHOSPHATE_METABOLIC_PROCESS	Metabolism	0.000196078	0.006568627	-0.3367453	-1.63996933	237	D4_G3
GO_VITAMIN_METABOLIC_PROCESS	Metabolism	0.000979624	0.017900399	-0.3746713	-1.64425139	111	D4_G3
REACTOME_METABOLISM_OF_AMINO_ACIDS_AND_DERIVATIVES	Metabolism	0.000195465	0.006568627	-0.3579626	-1.65507134	158	D4_G3
GO_UNSATURATED_FATTY_ACID_METABOLIC_PROCESS	Metabolism	0.002442838	0.030688147	-0.4028358	-1.67204233	79	D4_G3
GO_CELLULAR_MODIFIED_AMINO_ACID_METABOLIC_PROCESS	Metabolism	9.81E-05	0.005159138	-0.3581036	-1.67258911	170	D4_G3
GO_DICARBOXYLIC_ACID_METABOLIC_PROCESS	Metabolism	0.00117096	0.019613583	-0.4032472	-1.70124078	86	D4_G3
GO GLUTAMINE FAMILY AMINO ACID METABOLIC PROCESS	Metabolism	0.002441406	0.030688147	-0.453719	-1.72386943	50	D4_G3
GO_TETRAPYRROLE_METABOLIC_PROCESS	Metabolism	0.001948748	0.030130641	-0.4680752	-1.77250467	49	D4_G3
GO_WATER_SOLUBLE_VITAMIN_METABOLIC_PROCESS	Metabolism	9.78E-05	0.005159138	-0.450648	-1.87815003	81	D4_G3
KEGG_ARACHIDONIC_ACID_METABOLISM	Metabolism	0.000966277	0.017900399	-0.5341316	-1.89268483	36	D4_G3
GO GLUTATHIONE METABOLIC PROCESS	Metabolism	0.000682195	0.017140142	-0.5071172	-1.91212171	48	D4_G3
KEGG ALANINE ASPARTATE AND GLUTAMATE METABOLISM	Metabolism	0.000967961	0.017900399	-0.5918126	-1.94766893	27	D4_G3
GO_CATECHOLAMINE_METABOLIC_PROCESS	Metabolism	0.008934046	0.033254504	0.48496289	1.717843738	37	D4_G4
GO_CATECHOL_CONTAINING_COMPOUND_METABOLIC_PROCESS	Metabolism	0.008934046	0.033254504	0.48496289	1.717843738	37	D4_G4
GO_CELLULAR_CARBOHYDRATE_METABOLIC_PROCESS	Metabolism	0.015171078	0.049183656	-0.271895	-1.39308469	141	D4_G4
GO_PHOSPHATIDYLINOSITOL_METABOLIC_PROCESS	Metabolism	0.009333107	0.034108264	-0.2678561	-1.40514749	163	D4_G4
GO_AMMONIUM_ION_METABOLIC_PROCESS	Metabolism	0.015464731	0.049339856	-0.2768664	-1.40970046	135	D4_G4
REACTOME_PHOSPHOLIPID_METABOLISM	Metabolism	0.006359574	0.027197326	-0.2734068	-1.4421888	168	D4_G4
GO_MULTI_ORGANISM_METABOLIC_PROCESS	Metabolism	0.002790698	0.013792028	-0.2750495	-1.49384115	203	D4_G4
REACTOME_FATTY_ACID_TRIACYLGLYCEROL_AND_KETONE_BODY_METABOLISM	Metabolism	0.00297047	0.014215821	-0.2813902	-1.49516575	176	D4_G4
GO_MONOSACCHARIDE_METABOLIC_PROCESS	Metabolism	0.002637595	0.013792028	-0.2797794	-1.49670388	182	D4_G4
GO_SNRNA_METABOLIC_PROCESS	Metabolism	0.01326405	0.043706133	-0.325363	-1.50715623	81	D4_G4
GO_PYRIMIDINE_NUCLEOSIDE_METABOLIC_PROCESS	Metabolism	0.012933568	0.043706133	-0.4190993	-1.63171968	38	D4_G4
GO_NUCLEOSIDE_TRIPHOSPHATE_METABOLIC_PROCESS	Metabolism	0.000201248	0.002379459	-0.2954913	-1.63663854	237	D4_G4
GO_UNSATURATED_FATTY_ACID_METABOLIC_PROCESS	Metabolism	0.002703068	0.013792028	-0.3569614	-1.64538484	79	D4_G4
GO_TETRAPYRROLE_METABOLIC_PROCESS	Metabolism	0.00783162	0.031282777	-0.3979684	-1.64708174	49	D4_G4
REACTOME_METABOLISM_OF_NON_CODING_RNA	Metabolism	0.007215725	0.0295992	-0.3937754	-1.65114336	52	D4_G4
GO_NUCLEOTIDE_SUGAR_METABOLIC_PROCESS	Metabolism	0.010526316	0.037781955	-0.4391052	-1.65197849	33	D4_G4
KEGG_TYROSINE_METABOLISM	Metabolism	0.012330456	0.043481082	-0.4559376	-1.65546698	29	D4_G4
GO_FOLIC_ACID_CONTAINING_COMPOUND_METABOLIC_PROCESS	Metabolism	0.013094718	0.043706133	-0.4764764	-1.66084021	25	D4_G4
GO_PYRIMIDINE_NUCLEOTIDE_METABOLIC_PROCESS	Metabolism	0.006984586	0.029247953	-0.4131515	-1.66609295	44	D4_G4
GO_HEME_METABOLIC_PROCESS	Metabolism	0.012658228	0.043706133	-0.4783672	-1.66743097	25	D4_G4
KEGG_PROANOATE_METABOLISM	Metabolism	0.007937421	0.031282777	-0.4436118	-1.67899974	34	D4_G4
GO_ICOSANOID_METABOLIC_PROCESS	Metabolism	0.002215561	0.013097876	-0.3846264	-1.69790138	65	D4_G4
GO_FATTY_ACID_DERIVATIVE_METABOLIC_PROCESS	Metabolism	0.002215561	0.013097876	-0.3846264	-1.69790138	65	D4_G4
GO_ETHANOLAMINE_CONTAINING_COMPOUND_METABOLIC_PROCESS	Metabolism	0.002813299	0.013792028	-0.3898746	-1.69807699	61	D4_G4
GO_AMINE_METABOLIC_PROCESS	Metabolism	0.001247056	0.008711707	-0.3639361	-1.70543252	86	D4_G4
KEGG_FATTY_ACID_METABOLISM	Metabolism	0.005548996	0.024246702	-0.4374208	-1.7138028	39	D4_G4
GO_ALDITOL_PHOSPHATE_METABOLIC_PROCESS	Metabolism	0.008310249	0.03212231	-0.4828167	-1.71670294	27	D4_G4
GO_PYRIMIDINE_CONTAINING_COMPOUND_METABOLIC_PROCESS	Metabolism	0.002364998	0.013204572	-0.387123	-1.71884177	67	D4_G4
KEGG_PYRIMIDINE_METABOLISM	Metabolism	0.000839043	0.00674591	-0.3674922	-1.74779858	92	D4_G4
GO_NUCLEOBASE_METABOLIC_PROCESS	Metabolism	0.002351558	0.013204572	-0.4584774	-1.78503416	38	D4_G4
GO_ONE_CARBON_METABOLIC_PROCESS	Metabolism	0.003474947	0.015521429	-0.493943	-1.79346115	29	D4_G4

GO_HISTONE_MRNA_METABOLIC_PROCESS	Metabolism	0.003382187	0.015450446	-0.4915575	-1.79894345	30	D4_G4
KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	Metabolism	0.003382187	0.015450446	-0.4928882	-1.80381324	30	D4_G4
GO ASPARTATE_FAMILY_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.001256913	0.008711707	-0.4287566	-1.82265622	55	D4_G4
GO_PTERIDINE_CONTAINING_COMPOUND_METABOLIC_PROCESS	Metabolism	0.002155661	0.013097876	-0.4887519	-1.82530109	32	D4_G4
GO_BRANCHED_CHAIN_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.002437673	0.013242495	-0.5184015	-1.84322795	27	D4_G4
GO_AMINO_SUGAR_METABOLIC_PROCESS	Metabolism	0.001474926	0.009563232	-0.4941229	-1.84535971	32	D4_G4
KEGG_CYSTEINE_AND_METHIONINE_METABOLISM	Metabolism	0.00147242	0.009563232	-0.5035066	-1.8599316	31	D4_G4
GO_PIGMENT_METABOLIC_PROCESS	Metabolism	0.001101322	0.008198727	-0.4504358	-1.86423004	49	D4_G4
GO_SERINE_FAMILY_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.000580653	0.005074399	-0.4940931	-1.88053075	35	D4_G4
GO_PHOSPHATIDYLCHOLINE_METABOLIC_PROCESS	Metabolism	0.001089852	0.008198727	-0.4586218	-1.88122392	47	D4_G4
KEGG_ARACHIDONIC_ACID_METABOLISM	Metabolism	0.000463822	0.004439438	-0.4979995	-1.9134	36	D4_G4
GO_GLUTATHIONE_METABOLIC_PROCESS	Metabolism	0.000607977	0.005091804	-0.4681956	-1.93040356	48	D4_G4
REACTOME_METABOLISM_OF_NUCLEOTIDES	Metabolism	0.000263296	0.0027854	-0.4337532	-1.94120306	69	D4_G4
GO_MITOCHONDRIAL_RNA_METABOLIC_PROCESS	Metabolism	0.000567279	0.005074399	-0.5342895	-1.99536669	32	D4_G4
KEGG_ARGININE_AND_PROLINE_METABOLISM	Metabolism	0.000241779	0.002699871	-0.4913264	-2.00439951	46	D4_G4
GO_DICARBOXYLIC_ACID_METABOLIC_PROCESS	Metabolism	0.000138562	0.002228184	-0.4293723	-2.01207146	86	D4_G4
KEGG_DRUG_METABOLISM_CYTOCHROME_P450	Metabolism	0.000453052	0.004439438	-0.5478364	-2.02368384	31	D4_G4
REACTOME_METABOLISM_OF_AMINO_ACIDS_AND_DERIVATIVES	Metabolism	0.000167926	0.002228184	-0.3886061	-2.03066644	158	D4_G4
GO_CELLULAR_MODIFIED_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.000171851	0.002228184	-0.3861545	-2.04149873	170	D4_G4
KEGG_PURINE_METABOLISM	Metabolism	0.000158003	0.002228184	-0.4053307	-2.06031996	134	D4_G4
KEGG_GLYCEROPHOSPHOLIPID_METABOLISM	Metabolism	0.000127877	0.002228184	-0.4736846	-2.06310706	61	D4_G4
KEGG_AMINO_SUGAR_AND_NUCLEOTIDE_SUGAR_METABOLISM	Metabolism	0.00012089	0.002228184	-0.5075563	-2.07061042	46	D4_G4
GO_ALPHA_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.000177368	0.002228184	-0.3924113	-2.10033503	184	D4_G4
GO_GLUTAMINE_FAMILY_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.000122926	0.002228184	-0.5066564	-2.1042437	50	D4_G4
KEGG_GLUTATHIONE_METABOLISM	Metabolism	0.000120424	0.002228184	-0.5227413	-2.10802972	44	D4_G4
GO_WATER_SOLUBLE_VITAMIN_METABOLIC_PROCESS	Metabolism	0.000136743	0.002228184	-0.4582431	-2.12268768	81	D4_G4
GO_CELLULAR_METABOLIC_COMPOUND_SALVAGE	Metabolism	0.00011274	0.002228184	-0.5823879	-2.13135342	30	D4_G4
REACTOME_METABOLISM_OF_VITAMINS_AND_COFACTORS	Metabolism	0.000122926	0.002228184	-0.5212041	-2.16466341	50	D4_G4
GO_TRNA_METABOLIC_PROCESS	Metabolism	0.000172028	0.002228184	-0.4180037	-2.21168014	171	D4_G4
GO_VITAMIN_METABOLIC_PROCESS	Metabolism	0.000148302	0.002228184	-0.4522509	-2.22795277	111	D4_G4
REACTOME_PURINE_METABOLISM	Metabolism	0.000112095	0.002228184	-0.6279314	-2.27996058	29	D4_G4
KEGG_ALANINE ASPARTATE_AND GLUTAMATE_METABOLISM	Metabolism	0.000110803	0.002228184	-0.6838897	-2.43163764	27	D4_G4
KEGG_DRUG_METABOLISM_CYTOCHROME_P450	Metabolism	0.000236481	0.009506543	0.64858916	2.083644157	31	D4_G5
KEGG_GLUTATHIONE_METABOLISM	Metabolism	7.50E-05	0.009506543	0.60081938	2.076509948	44	D4_G5
KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	Metabolism	0.000396008	0.011371094	0.63404305	2.0178902	30	D4_G5
GO_GLUTATHIONE_METABOLIC_PROCESS	Metabolism	0.000222239	0.009506543	0.56420011	1.981792253	48	D4_G5
GO_WATER_SOLUBLE_VITAMIN_METABOLIC_PROCESS	Metabolism	0.000136584	0.009506543	0.50130305	1.926325396	81	D4_G5
GO_ALDITOL_PHOSPHATE_METABOLIC_PROCESS	Metabolism	0.002156377	0.03334091	0.60151229	1.871154763	27	D4_G5
GO_ICOSANOID_METABOLIC_PROCESS	Metabolism	0.000634965	0.013013078	0.50158282	1.860248373	65	D4_G5
GO_FATTY_ACID_DERIVATIVE_METABOLIC_PROCESS	Metabolism	0.000634965	0.013013078	0.50158282	1.860248373	65	D4_G5
KEGG_ARACHIDONIC_ACID_METABOLISM	Metabolism	0.002777349	0.039874799	0.55138236	1.832352794	36	D4_G5
GO_VITAMIN_METABOLIC_PROCESS	Metabolism	0.000647417	0.013013078	0.43616136	1.759024228	111	D4_G5
GO_CELLULAR_MODIFIED_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.00030106	0.010085501	0.39798476	1.697841161	170	D4_G5
REACTOME_METABOLISM_OF_AMINO_ACIDS_AND_DERIVATIVES	Metabolism	0.003780488	0.045833759	0.36620015	1.547970022	158	D4_G5
GO_MULTI_ORGANISM_METABOLIC_PROCESS	Metabolism	0.003524436	0.045833759	0.34910895	1.517230315	203	D4_G5
REACTOME_GLUCAGON_SIGNALING_IN_METABOLIC_REGULATION	Metabolism	0.003876487	0.045833759	-0.5074645	-1.77346403	27	D4_G5
REACTOME_HEPARAN_SULFATE_HEPARIN_HS_GAG_METABOLISM	Metabolism	0.001076426	0.019669244	-0.4474341	-1.82088863	48	D4_G5
GO_HEPARAN_SULFATE_PROTEOGLYCAN_METABOLIC_PROCESS	Metabolism	0.001626898	0.027250542	-0.507515	-1.83157984	30	D4_G5
GO_PROTEOGLYCAN_METABOLIC_PROCESS	Metabolism	0.00200562	0.009506543	-0.4160563	-1.95223439	94	D4_G5
KEGG_CYSTEINE_AND_METHIONINE_METABOLISM	Metabolism	0.000244529	0.004468206	0.62112122	1.919479057	31	D4_G6
GO_TRNA_METABOLIC_PROCESS	Metabolism	5.10E-05	0.002182173	0.49366124	1.895578931	171	D4_G6
GO_SERINE_FAMILY_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.00018005	0.004468206	0.59682131	1.891222879	35	D4_G6

GO DICARBOXYLIC ACID METABOLIC PROCESS	Metabolism	5.39E-05	0.002182173	0.51652082	1.868167757	86	D4_G6
KEGG GLUTATHIONE METABOLISM	Metabolism	0.000174683	0.004468206	0.56082554	1.849580007	44	D4_G6
GO WATER SOLUBLE VITAMIN METABOLIC PROCESS	Metabolism	5.43E-05	0.002182173	0.51099617	1.833556294	81	D4_G6
GO PHOSPHATIDYLGLYCEROL METABOLIC PROCESS	Metabolism	0.000878679	0.009811921	0.60510017	1.806579852	26	D4_G6
GO PTERIDINE CONTAINING COMPOUND METABOLIC PROCESS	Metabolism	0.001034315	0.010941963	0.57855149	1.799069889	32	D4_G6
GO ASPARTATE FAMILY AMINO ACID METABOLIC PROCESS	Metabolism	0.000226244	0.004468206	0.51889738	1.768870382	55	D4_G6
GO ALPHA AMINO ACID METABOLIC PROCESS	Metabolism	5.09E-05	0.002182173	0.45592234	1.757768073	184	D4_G6
KEGG AMINO SUGAR AND NUCLEOTIDE SUGAR METABOLISM	Metabolism	0.000522224	0.008074379	0.52972847	1.756527666	46	D4_G6
KEGG ALANINE ASPARTATE AND GLUTAMATE METABOLISM	Metabolism	0.001748798	0.015282971	0.58378754	1.755671708	27	D4_G6
GO MITOCHONDRIAL RNA METABOLIC PROCESS	Metabolism	0.002007788	0.016815223	0.56389223	1.753485294	32	D4_G6
GO CELLULAR MODIFIED AMINO ACID METABOLIC PROCESS	Metabolism	5.11E-05	0.002182173	0.45197254	1.734401703	170	D4_G6
KEGG FRUCTOSE AND MANNOSE METABOLISM	Metabolism	0.002173651	0.01747615	0.54920327	1.729803116	34	D4_G6
GO FOLIC ACID CONTAINING COMPOUND METABOLIC PROCESS	Metabolism	0.003042596	0.021385374	0.58454955	1.728873353	25	D4_G6
KEGG PYRUVATE METABOLISM	Metabolism	0.001640593	0.014989054	0.52580822	1.721602158	42	D4_G6
GO GLUTAMINE FAMILY AMINO ACID METABOLIC PROCESS	Metabolism	0.000860092	0.009811921	0.51157173	1.717968034	50	D4_G6
REACTOME METABOLISM OF VITAMINS AND COFACTORS	Metabolism	0.001548165	0.014818152	0.50344861	1.69068887	50	D4_G6
GO ALDITOL PHOSPHATE METABOLIC PROCESS	Metabolism	0.005059022	0.027871622	0.55823901	1.67883753	27	D4_G6
GO GLUTATHIONE METABOLIC PROCESS	Metabolism	0.002538364	0.019623506	0.50140861	1.672979539	48	D4_G6
REACTOME PURINE METABOLISM	Metabolism	0.006626618	0.0317131	0.54104575	1.647352738	29	D4_G6
REACTOME METABOLISM OF AMINO ACIDS AND DERIVATIVES	Metabolism	0.00010258	0.003436426	0.42935128	1.638589751	158	D4_G6
GO NEGATIVE REGULATION OF DNA METABOLIC PROCESS	Metabolism	0.000206398	0.004468206	0.4319768	1.635310892	142	D4_G6
KEGG GLYCEROPHOSPHOLIPID METABOLISM	Metabolism	0.002855863	0.021260313	0.47122855	1.629473869	61	D4_G6
GO ETHANOLAMINE CONTAINING COMPOUND METABOLIC PROCESS	Metabolism	0.003191847	0.021385374	0.46874493	1.620885696	61	D4_G6
GO ONE CARBON METABOLIC PROCESS	Metabolism	0.009599306	0.041052353	0.53142874	1.618071293	29	D4_G6
REACTOME METABOLISM OF NON CODING RNA	Metabolism	0.004453834	0.026414915	0.47863865	1.616808488	52	D4_G6
KEGG ARACHIDONIC ACID METABOLISM	Metabolism	0.008493839	0.039703759	0.50776842	1.61668208	36	D4_G6
GO PYRUVATE METABOLIC PROCESS	Metabolism	0.004428251	0.026414915	0.46211935	1.595350382	60	D4_G6
GO VITAMIN METABOLIC PROCESS	Metabolism	0.00131413	0.013207002	0.42955518	1.593657341	111	D4_G6
GO ICOSANOID METABOLIC PROCESS	Metabolism	0.004599612	0.026414915	0.45526644	1.589850506	65	D4_G6
GO FATTY ACID DERIVATIVE METABOLIC PROCESS	Metabolism	0.004599612	0.026414915	0.45526644	1.589850506	65	D4_G6
KEGG FATTY ACID METABOLISM	Metabolism	0.011240608	0.047070047	0.49066113	1.585544412	39	D4_G6
GO PHOSPHATIDYLCHOLINE METABOLIC PROCESS	Metabolism	0.009319287	0.040721232	0.47457434	1.57763504	47	D4_G6
GO AMINE METABOLIC PROCESS	Metabolism	0.003127528	0.021385374	0.43514558	1.573847406	86	D4_G6
GO UNSATURATED FATTY ACID METABOLIC PROCESS	Metabolism	0.003750204	0.024315838	0.43955298	1.573104772	79	D4_G6
REACTOME METABOLISM OF NUCLEOTIDES	Metabolism	0.006276496	0.03077014	0.44241488	1.557906987	69	D4_G6
GO MONOSACCHARIDE METABOLIC PROCESS	Metabolism	0.00071207	0.009811921	0.39391846	1.518343075	182	D4_G6
GO OXIDOREDUCTION COENZYME METABOLIC PROCESS	Metabolism	0.008888652	0.04060498	0.40715838	1.49037993	97	D4_G6
GO NUCLEOSIDE TRIPHOSPHATE METABOLIC PROCESS	Metabolism	0.012052446	0.049439625	0.34612064	1.353420104	237	D4_G6
GO AMINOGLYCAN METABOLIC PROCESS	Metabolism	0.005856515	0.030183579	-0.2604401	-1.42540543	137	D4_G6
REACTOME GLYCOSAMINOGLYCAN METABOLISM	Metabolism	0.009223674	0.040721232	-0.2881539	-1.4721859	93	D4_G6
GO MULTICELLULAR ORGANISMAL MACROMOLECULE METABOLIC PROCESS	Metabolism	0.005130597	0.027871622	-0.3384514	-1.59339774	61	D4_G6
REACTOME CHONDROITIN SULFATE DERMATAN SULFATE METABOLISM	Metabolism	0.005653475	0.029903908	-0.3889408	-1.67620537	41	D4_G6
REACTOME GLUCAGON SIGNALING IN METABOLIC REGULATION	Metabolism	0.00601353	0.03021799	-0.4624265	-1.77482588	27	D4_G6
GO HEPARAN SULFATE PROTEOGLYCAN METABOLIC PROCESS	Metabolism	0.000805369	0.009811921	-0.5059538	-2.0049497	30	D4_G6
REACTOME HEPARAN SULFATE HEPARIN HS_GAG METABOLISM	Metabolism	0.000374813	0.006278111	-0.475714	-2.1311597	48	D4_G6
GO PROTEOGLYCAN METABOLIC PROCESS	Metabolism	0.000772201	0.009811921	-0.4188229	-2.14621601	94	D4_G6
GO CATECHOLAMINE METABOLIC PROCESS	Metabolism	0.000508762	0.016893596	0.6420404	1.815380305	37	D4_G7
GO CATECHOL CONTAINING COMPOUND METABOLIC PROCESS	Metabolism	0.000508762	0.016893596	0.6420404	1.815380305	37	D4_G7
GO NEUROTRANSMITTER METABOLIC PROCESS	Metabolism	0.001362963	0.02274145	0.66552672	1.79458252	27	D4_G7
GO NEGATIVE REGULATION OF CYCLIC NUCLEOTIDE METABOLIC PROCESS	Metabolism	0.001811382	0.02274145	0.64620607	1.764947036	29	D4_G7
GO PHENOL CONTAINING COMPOUND METABOLIC PROCESS	Metabolism	0.000532595	0.016893596	0.56982469	1.705260256	59	D4_G7
GO CYCLIC NUCLEOTIDE METABOLIC PROCESS	Metabolism	0.002036548	0.02274145	0.58331347	1.691615007	45	D4_G7



GO_NEGATIVE_REGULATION_OF_NUCLEOTIDE_METABOLIC_PROCESS	Metabolism	0.001665324	0.02274145	0.56631941	1.680129518	54	D4_G7
GO_REGULATION_OF_CAMP_METABOLIC_PROCESS	Metabolism	0.00378536	0.033080754	0.49324052	1.536791517	96	D4_G7
REACTOME_INTEGRATION_OF_ENERGY_METABOLISM	Metabolism	0.001564313	0.02274145	0.48510019	1.535671454	132	D4_G7
GO_REGULATION_OF_CYCLIC_NUCLEOTIDE_METABOLIC_PROCESS	Metabolism	0.002028809	0.02274145	0.48744117	1.533977713	116	D4_G7
GO_RECEPTOR_METABOLIC_PROCESS	Metabolism	0.007399358	0.047976485	0.49522122	1.524033551	81	D4_G7
GO_PROTEOGLYCAN_METABOLIC_PROCESS	Metabolism	0.005275288	0.040023895	0.4890947	1.521591829	94	D4_G7
GO_CELLULAR_METABOLIC_PURINE_NUCLEOTIDE_METABOLIC_PROCESS	Metabolism	0.005376344	0.040023895	0.47373197	1.490392205	115	D4_G7
GO_POSITIVE_REGULATION_OF_NUCLEOTIDE_METABOLIC_PROCESS	Metabolism	0.005376344	0.040023895	0.47373197	1.490392205	115	D4_G7
KEGG_PURINE_METABOLISM	Metabolism	0.005780347	0.041012038	-0.2494492	-1.39880785	134	D4_G7
GO_NEGATIVE_REGULATION_OF_DNA_METABOLIC_PROCESS	Metabolism	0.006578947	0.044078947	-0.2762931	-1.55602052	142	D4_G7
GO_SNRNA_METABOLIC_PROCESS	Metabolism	0.00591716	0.041012038	-0.3103267	-1.60999844	81	D4_G7
KEGG_PYRIMIDINE_METABOLISM	Metabolism	0.002028398	0.02274145	-0.3084208	-1.63058523	92	D4_G7
GO_VITAMIN_METABOLIC_PROCESS	Metabolism	0.003289474	0.030141962	-0.3040881	-1.66705428	111	D4_G7
GO_PYRIMIDINE_NUCLEOTIDE_METABOLIC_PROCESS	Metabolism	0.003186405	0.030141962	-0.3932325	-1.75979732	44	D4_G7
GO_CELLULAR_METABOLIC_COMPOUND_SALVAGE	Metabolism	0.004976893	0.040023895	-0.4490901	-1.78694446	30	D4_G7
KEGG_CYSTEINE_AND_METHIONINE_METABOLISM	Metabolism	0.00329912	0.030141962	-0.4532194	-1.82353214	31	D4_G7
GO_WATER_SOLUBLE_VITAMIN_METABOLIC_PROCESS	Metabolism	0.00147929	0.02274145	-0.3536233	-1.83462419	81	D4_G7
REACTOME_METABOLISM_OF_NUCLEOTIDES	Metabolism	0.001067236	0.021451441	-0.3714735	-1.84734705	69	D4_G7
GO_DEOXYRIBONUCLEOTIDE_METABOLIC_PROCESS	Metabolism	0.00249273	0.026370455	-0.4379857	-1.85058539	36	D4_G7
GO_PIGMENT_METABOLIC_PROCESS	Metabolism	0.000608273	0.016893596	-0.425762	-1.95838317	49	D4_G7
GO_PTERIDINE_CONTAINING_COMPOUND_METABOLIC_PROCESS	Metabolism	0.00075643	0.016893596	-0.5088155	-2.07191883	32	D4_G7
REACTOME_PURINE_METABOLISM	Metabolism	0.000692521	0.016893596	-0.5305216	-2.08932948	29	D4_G7
GO_MITOCHONDRIAL_RNA_METABOLIC_PROCESS	Metabolism	0.000378215	0.016893596	-0.5401757	-2.19961885	32	D4_G7
GO_SERINE_FAMILY_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.000411862	0.016893596	-0.5605501	-2.33732477	35	D4_G7
REACTOME_METABOLISM_OF_NON_CODING_RNA	Metabolism	0.00066357	0.016893596	-0.5649664	-2.63785494	52	D4_G7
GO_CATECHOLAMINE_METABOLIC_PROCESS	Metabolism	0.002438249	0.01531525	0.50068449	1.891798915	37	D4_G8
GO_CATECHOL_CONTAINING_COMPOUND_METABOLIC_PROCESS	Metabolism	0.002438249	0.01531525	0.50068449	1.891798915	37	D4_G8
GO_PROTEOGLYCAN_METABOLIC_PROCESS	Metabolism	0.002719767	0.016411289	0.37322567	1.72645553	94	D4_G8
REACTOME_METABOLISM_OF_CARBOHYDRATES	Metabolism	0.006341298	0.031087825	-0.2600355	-1.44632992	210	D4_G8
GO_STEROL_METABOLIC_PROCESS	Metabolism	0.006785677	0.032474311	-0.312615	-1.54211297	105	D4_G8
REACTOME_FATTY_ACID_TRIACYLGLYCEROL_AND_KETONE_BODY_METABOLISM	Metabolism	0.00155521	0.011577674	-0.2907423	-1.57363251	176	D4_G8
GO_THIOESTER_METABOLIC_PROCESS	Metabolism	0.009246231	0.041299832	-0.3493465	-1.58037766	69	D4_G8
GO_ACYL_COA_METABOLIC_PROCESS	Metabolism	0.009246231	0.041299832	-0.3493465	-1.58037766	69	D4_G8
GO_AMINE_METABOLIC_PROCESS	Metabolism	0.007371007	0.034455174	-0.3339382	-1.5835642	86	D4_G8
GO_SNRNA_METABOLIC_PROCESS	Metabolism	0.006095703	0.030630905	-0.33885	-1.58460057	81	D4_G8
GO_NEGATIVE_REGULATION_OF_DNA_METABOLIC_PROCESS	Metabolism	0.00151335	0.011577674	-0.3083418	-1.60862952	142	D4_G8
GO_PORPHYRIN_CONTAINING_COMPOUND_METABOLIC_PROCESS	Metabolism	0.01123806	0.049105434	-0.4542549	-1.6591686	29	D4_G8
KEGG_INOSITOL_PHOSPHATE_METABOLISM	Metabolism	0.00503876	0.026652387	-0.4101786	-1.69705603	47	D4_G8
KEGG_GLUTATHIONE_METABOLISM	Metabolism	0.004422652	0.024025756	-0.4221082	-1.71675595	44	D4_G8
KEGG_CYSTEINE_AND_METHIONINE_METABOLISM	Metabolism	0.005267118	0.027145917	-0.4671598	-1.73832212	31	D4_G8
KEGG_ARGININE_AND_PROLINE_METABOLISM	Metabolism	0.002321083	0.01531525	-0.4292152	-1.76644646	46	D4_G8
GO_SULFUR_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.002857687	0.016411289	-0.4426205	-1.76939099	41	D4_G8
GO_GLUTAMINE_FAMILY_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.002234311	0.01531525	-0.4210537	-1.7696271	50	D4_G8
REACTOME_METABOLISM_OF_AMINO_ACIDS_AND_DERIVATIVES	Metabolism	0.000110412	0.001619531	-0.3342678	-1.77556751	158	D4_G8
GO_PYRIMIDINE_NUCLEOTIDE_METABOLIC_PROCESS	Metabolism	0.00230747	0.01531525	-0.438004	-1.7814058	44	D4_G8
GO_POSITIVE_REGULATION_OF_DNA_METABOLIC_PROCESS	Metabolism	0.000112803	0.001619531	-0.3228003	-1.79042903	206	D4_G8
GO_MULTI_ORGANISM_METABOLIC_PROCESS	Metabolism	0.000112233	0.001619531	-0.3238035	-1.7939022	203	D4_G8
GO_ASPARTATE_FAMILY_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.000982994	0.008980992	-0.4182704	-1.79807628	55	D4_G8
GO_MITOCHONDRIAL_RNA_METABOLIC_PROCESS	Metabolism	0.002814787	0.016411289	-0.4796582	-1.80145132	32	D4_G8
GO_HEME_METABOLIC_PROCESS	Metabolism	0.003221057	0.017984232	-0.5170989	-1.81344973	25	D4_G8
KEGG_AMINO_SUGAR_AND_NUCLEOTIDE_SUGAR_METABOLISM	Metabolism	0.001257253	0.010790539	-0.443172	-1.82388594	46	D4_G8
GO_PIGMENT_METABOLIC_PROCESS	Metabolism	0.000777529	0.008225443	-0.442873	-1.84925563	49	D4_G8

GO_CELLULAR_MODIFIED_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.000110084	0.001619531	-0.3437414	-1.85042555	170	D4_G8
GO_PTERIDINE_CONTAINING_COMPOUND_METABOLIC_PROCESS	Metabolism	0.00150122	0.011577674	-0.4948913	-1.85866241	32	D4_G8
KEGG_PYRIMIDINE_METABOLISM	Metabolism	0.00010287	0.001619531	-0.3892665	-1.87313948	92	D4_G8
GO_PYRIMIDINE_CONTAINING_COMPOUND_METABOLIC_PROCESS	Metabolism	0.000201045	0.002694009	-0.420986	-1.88989859	67	D4_G8
KEGG_PURINE_METABOLISM	Metabolism	0.000107032	0.001619531	-0.3665129	-1.89353903	134	D4_G8
GO_FOLIC_ACID_CONTAINING_COMPOUND_METABOLIC_PROCESS	Metabolism	0.001288423	0.010790539	-0.541164	-1.89784544	25	D4_G8
GO_NUCLEOBASE_METABOLIC_PROCESS	Metabolism	0.000852919	0.008571835	-0.4866462	-1.90664876	38	D4_G8
GO_DICARBOXYLIC_ACID_METABOLIC_PROCESS	Metabolism	0.000102375	0.001619531	-0.4052779	-1.92186363	86	D4_G8
GO_ONE_CARBON_METABOLIC_PROCESS	Metabolism	0.000936505	0.00896369	-0.5265844	-1.92335255	29	D4_G8
GO_VITAMIN_METABOLIC_PROCESS	Metabolism	0.000104362	0.001619531	-0.390831	-1.94844257	111	D4_G8
GO_CELLULAR_METABOLIC_COMPOUND_SALVAGE	Metabolism	0.000748643	0.008225443	-0.5280293	-1.94916279	30	D4_G8
GO_SERINE_FAMILY_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.000471921	0.005928504	-0.527904	-2.02770923	35	D4_G8
REACTOME_PURINE_METABOLISM	Metabolism	0.000561903	0.006643676	-0.5580788	-2.03838607	29	D4_G8
GO_WATER_SOLUBLE_VITAMIN_METABOLIC_PROCESS	Metabolism	0.000101595	0.001619531	-0.4393662	-2.05465569	81	D4_G8
REACTOME_METABOLISM_OF_VITAMINS_AND_COFACTORS	Metabolism	9.71E-05	0.001619531	-0.4909536	-2.06340635	50	D4_G8
GO_ALPHA_AMINO_ACID_METABOLIC_PROCESS	Metabolism	0.000111844	0.001619531	-0.3846393	-2.09657497	184	D4_G8
REACTOME_METABOLISM_OF_NUCLEOTIDES	Metabolism	0.000100503	0.001619531	-0.4687333	-2.12046116	69	D4_G8
REACTOME_METABOLISM_OF_NON_CODING_RNA	Metabolism	9.76E-05	0.001619531	-0.5100324	-2.16566924	52	D4_G8
GO_TRNA_METABOLIC_PROCESS	Metabolism	0.000110412	0.001619531	-0.4218252	-2.27288677	171	D4_G8
GO_T_CELL_RECEPTOR_SIGNALING_PATHWAY	Signaling	0.000268817	0.023038536	0.39939575	1.704538878	140	D4_G1
REACTOME_DOWNSTREAM_SIGNALING_EVENTS_OF_B_CELL_RECEPTOR_BCR	Signaling	0.00049903	0.023038536	0.41259303	1.703035351	106	D4_G1
GO_NIK_NF_KAPPAB_SIGNALING	Signaling	0.001356622	0.031315358	0.41537643	1.673901944	89	D4_G1
GO_INNATE_IMMUNE_RESPONSE_ACTIVATING_CELL_SURFACE_RECEPTOR_SIGNALING_PATHWAY	Signaling	0.00171888	0.033813477	0.39297928	1.622076863	106	D4_G1
KEGG_CHEMOKINE_SIGNALING_PATHWAY	Signaling	0.001711047	0.033813477	0.36291742	1.559478433	149	D4_G1
REACTOME_SIGNALING_BY_THE_B_CELL_RECEPTOR_BCR	Signaling	0.002421308	0.037261232	0.3629449	1.547875853	139	D4_G1
GO_SIGNAL_RELEASE	Signaling	0.001953125	0.033813477	-0.2578623	-1.50859172	177	D4_G1
GO_REGULATION_OF_TRANSFORMING_GROWTH_FACTOR_BETA_RECEPTOR_SIGNALING_PATHWAY	Signaling	0.002117149	0.034497073	-0.2718839	-1.53193363	139	D4_G1
GO_REGULATION_OF_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY_IN_ABSENCE_OF_LIGAND	Signaling	0.00103484	0.026059143	-0.3555438	-1.73309725	65	D4_G1
GO_REGULATION_OF_NOTCH_SIGNALING_PATHWAY	Signaling	0.000344947	0.023038536	-0.3706164	-1.80656848	65	D4_G1
GO_NEGATIVE_REGULATION_OF_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY_IN_ABSENCE_OF_LIGAND	Signaling	0.000823723	0.02535237	-0.4139695	-1.86248434	45	D4_G1
GO_NEGATIVE_REGULATION_OF_SIGNAL_TRANSDUCTION_IN_ABSENCE_OF_LIGAND	Signaling	0.000823723	0.02535237	-0.4139695	-1.86248434	45	D4_G1
GO_POSITIVE_REGULATION_OF_TRANSMEMBRANE_RECEPTOR_PROTEIN_SERINE_THREONINE_KINASE_SIGNALING_PATHWAY	Signaling	0.001016777	0.026059143	-0.3514343	-1.88424216	106	D4_G1
REACTOME_CRMP5_IN_SEMA3A_SIGNALING	Signaling	0.001898334	0.033813477	-0.4951305	-1.94216934	26	D4_G1
GO_POSITIVE_REGULATION_OF_NOTCH_SIGNALING_PATHWAY	Signaling	0.000727626	0.02535237	-0.4596691	-1.94628233	35	D4_G1
GO_REGULATION_OF_BMP_SIGNALING_PATHWAY	Signaling	0.000454959	0.023038536	-0.395124	-2.07168901	93	D4_G1
GO_POSITIVE_REGULATION_OF_SMOOTHENED_SIGNALING_PATHWAY	Signaling	0.000242542	0.023038536	-0.5199027	-2.20131736	35	D4_G1
GO_POSITIVE_REGULATION_OF_BMP_SIGNALING_PATHWAY	Signaling	0.000252461	0.023038536	-0.5441454	-2.35096791	38	D4_G1
GO_POSITIVE_REGULATION_OF_SMOOTHENED_SIGNALING_PATHWAY	Signaling	0.00011854	0.002756877	0.64157996	2.304338087	35	D4_G2
REACTOME_G_ALPHA_I_SIGNALING_EVENTS	Signaling	0.000117343	0.002756877	0.52583156	2.242513522	79	D4_G2
GO_TRANSMEMBRANE_RECEPTOR_PROTEIN_SERINE_THREONINE_KINASE_SIGNALING_PATHWAY	Signaling	0.000118273	0.002756877	0.42912117	2.13900955	212	D4_G2
GO_SMAD_PROTEIN_SIGNAL_TRANSDUCTION	Signaling	0.000236379	0.003478632	0.56433232	2.119688032	42	D4_G2
GO_NEGATIVE_REGULATION_OF_TRANSMEMBRANE_RECEPTOR_PROTEIN_SERINE_THREONINE_KINASE_SIGNALING_PATHWAY	Signaling	0.000117994	0.002756877	0.43987956	2.062217447	138	D4_G2
GO_INTEGRIN_MEDIATED_SIGNALING_PATHWAY	Signaling	0.000118175	0.002756877	0.46954864	2.058538388	93	D4_G2
REACTOME_G_ALPHA_Z_SIGNALING_EVENTS	Signaling	0.000472646	0.005951038	0.55832845	2.057762538	39	D4_G2
GO_POSITIVE_REGULATION_OF_TRANSMEMBRANE_RECEPTOR_PROTEIN_SERINE_THREONINE_KINASE_SIGNALING_PATHWAY	Signaling	0.000117702	0.002756877	0.44788975	2.008772987	106	D4_G2
KEGG_TGF_BETA_SIGNALING_PATHWAY	Signaling	0.000235905	0.003478632	0.46604028	1.964903402	75	D4_G2
GO_REGULATION_OF_SMOOTHENED_SIGNALING_PATHWAY	Signaling	0.000234797	0.003478632	0.45135908	1.935822068	81	D4_G2
GO_REGULATION_OF_BMP_SIGNALING_PATHWAY	Signaling	0.000118175	0.002756877	0.44115018	1.934037329	93	D4_G2
GO_NEGATIVE_REGULATION_OF_WNT_SIGNALING_PATHWAY	Signaling	0.000119432	0.002756877	0.3846663	1.93077215	227	D4_G2
GO_NEGATIVE_REGULATION_OF_TRANSFORMING_GROWTH_FACTOR_BETA_RECEPTOR_SIGNALING_PATHWAY	Signaling	0.000117911	0.002756877	0.43202936	1.905925144	96	D4_G2
GO_ADENYLATE_CYCLASE_ACTIVATING_G_PROTEIN_COUPLED_RECEPTOR_SIGNALING_PATHWAY	Signaling	0.000823433	0.009123633	0.48878413	1.898574757	49	D4_G2
GO_POSITIVE_REGULATION_OF_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY	Signaling	0.001532296	0.014203447	0.5342754	1.897501571	33	D4_G2

GO LIPOPOLYSACCHARIDE MEDIATED SIGNALING PATHWAY	Signaling	0.00223951	0.01732983	0.5289845	1.878710717	33	D4_G2
GO REGULATION_OF_SYSTEMIC_ARTERIAL_BLOOD_PRESSURE_MEDIATED_BY_A_CHEMICAL_SIGNAL	Signaling	0.001538279	0.014203447	0.51627669	1.87641126	37	D4_G2
GO TOLL LIKE RECEPTOR SIGNALING PATHWAY	Signaling	0.000235682	0.003478632	0.42415981	1.856375135	92	D4_G2
GO REGULATION_OF_VASCULAR_ENDOTHELIAL_GROWTH_FACTOR_RECEPTOR_SIGNALING_PATHWAY	Signaling	0.002252252	0.01732983	0.51480797	1.849016006	35	D4_G2
GO_PATTERN_RECOGNITION_RECEPTOR_SIGNALING_PATHWAY	Signaling	0.000117426	0.002756877	0.40493577	1.831511486	111	D4_G2
GO G PROTEIN COUPLED RECEPTOR SIGNALING PATHWAY COUPLED TO CYCLIC NUCLEOTIDE SECOND MESSENGER	Signaling	0.000471476	0.005951038	0.41506257	1.824851014	94	D4_G2
GO NOTCH SIGNALING PATHWAY	Signaling	0.000118751	0.002756877	0.39357971	1.818249314	127	D4_G2
GO_NEGATIVE_REGULATION_OF_BMP_SIGNALING_PATHWAY	Signaling	0.001641844	0.014264065	0.46080392	1.806985394	51	D4_G2
GO_VASCULAR_ENDOTHELIAL_GROWTH_FACTOR_RECEPTOR_SIGNALING_PATHWAY	Signaling	0.00047081	0.005951038	0.41416877	1.796509987	87	D4_G2
REACTOME_G_ALPHA_Q_SIGNALLING_EVENTS	Signaling	0.000706215	0.008150895	0.40952818	1.77638084	87	D4_G2
GO_TRANSFORMING_GROWTH_FACTOR_BETA_RECEPTOR_SIGNALING_PATHWAY	Signaling	0.000118948	0.002756877	0.37940508	1.745644436	124	D4_G2
GO_REGULATION_OF_TRANSFORMING_GROWTH_FACTOR_BETA_RECEPTOR_SIGNALING_PATHWAY	Signaling	0.000590249	0.007108652	0.36207752	1.699393957	139	D4_G2
GO_POSITIVE_REGULATION_OF_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY	Signaling	0.003992016	0.029099695	0.42479241	1.691759824	55	D4_G2
GO MYD88 DEPENDENT TOLL LIKE RECEPTOR SIGNALING PATHWAY	Signaling	0.006619385	0.043656422	0.4450769	1.687969782	44	D4_G2
GO_ADENYLATE_CYCLASE_MODULATING_G_PROTEIN_COUPLED_RECEPTOR_SIGNALING_PATHWAY	Signaling	0.001647834	0.014264065	0.3858343	1.673605587	87	D4_G2
REACTOME_GASTRIN_CREB_SIGNALLING_PATHWAY_VIA_PKC_AND_MAPK	Signaling	0.001531574	0.014203447	0.36089838	1.648798758	118	D4_G2
GO_POSITIVE_REGULATION_OF_WNT_SIGNALING_PATHWAY	Signaling	0.000238607	0.003478632	0.3313704	1.630539605	195	D4_G2
GO_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY	Signaling	0.00199718	0.016271147	0.35986516	1.629994463	112	D4_G2
GO_REGULATION_OF_PHOSPHATIDYLINOSITOL_3_KINASE_SIGNALING	Signaling	0.001184273	0.012671061	0.34865965	1.627070279	135	D4_G2
GO_RHO_PROTEIN_SIGNAL_TRANSDUCTION	Signaling	0.00471087	0.032622777	0.39366376	1.6262599	67	D4_G2
GO_NEGATIVE_REGULATION_OF_CANONICAL_WNT_SIGNALING_PATHWAY	Signaling	0.000237869	0.003478632	0.33143963	1.625687399	190	D4_G2
REACTOME_NCAM_SIGNALING_FOR_NEURITE_OUT_GROWTH	Signaling	0.003875514	0.029013982	0.37700111	1.612795857	80	D4_G2
GO_REGULATION_OF_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY_IN_ABSENCE_OF_LIGAND	Signaling	0.006499645	0.043656422	0.38901604	1.599119633	65	D4_G2
REACTOME_SIGNALING_BY_PDGF	Signaling	0.001769912	0.01485653	0.34034377	1.595579631	138	D4_G2
GO_REGULATION_OF_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY	Signaling	0.001436954	0.014203447	0.3156946	1.531838314	176	D4_G2
GO_SIGNAL_TRANSDUCTION_IN_RESPONSE_TO_DNA_DAMAGE	Signaling	0.004510365	0.032035158	-0.3462438	-1.55048616	116	D4_G2
GO_REGULATION_OF_SIGNAL_TRANSDUCTION_BY_P53_CLASS_MEDIATOR	Signaling	0.000172265	0.003478632	-0.3573164	-1.71377784	183	D4_G2
GO_POSITIVE_REGULATION_OF_BMP_SIGNALING_PATHWAY	Signaling	0.000309151	0.015853393	0.55146472	1.982083178	38	D4_G3
GO_NEGATIVE_REGULATION_OF_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY_IN_ABSENCE_OF_LIGAND	Signaling	0.000412116	0.015853393	0.5108447	1.907099316	45	D4_G3
GO_NEGATIVE_REGULATION_OF_SIGNAL_TRANSDUCTION_IN_ABSENCE_OF_LIGAND	Signaling	0.000412116	0.015853393	0.5108447	1.907099316	45	D4_G3
GO_SMOOTHENED_SIGNALING_PATHWAY	Signaling	0.000103605	0.014349358	0.44787985	1.867186268	81	D4_G3
GO_REGULATION_OF_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY_IN_ABSENCE_OF_LIGAND	Signaling	0.000515092	0.015853393	0.45107287	1.808156532	65	D4_G3
GO_REGULATION_OF_BMP_SIGNALING_PATHWAY	Signaling	0.000207361	0.015853393	0.41217032	1.761775157	93	D4_G3
GO_REGULATION_OF_SMOOTHENED_SIGNALING_PATHWAY	Signaling	0.001036055	0.028698715	0.39855755	1.661564317	81	D4_G3
GO_MULTICELLULAR_ORGANISMAL_SIGNALING	Signaling	0.00048459	0.015853393	-0.3719586	-1.65992709	122	D4_G3
GO_T_CELL_RECEPTOR_SIGNALING_PATHWAY	Signaling	9.68E-05	0.014349358	-0.3915057	-1.78529691	140	D4_G3
GO_FC_GAMMA_RECEPTOR_SIGNALING_PATHWAY	Signaling	0.000288656	0.015853393	-0.4266943	-1.80013331	86	D4_G3
GO_SIGNAL_RELEASE	Signaling	6.91E-05	0.019150996	0.40782927	1.910023984	177	D4_G4
KEGG_PHOSPHATIDYLINOSITOL_SIGNALING_SYSTEM	Signaling	0.00225051	0.042387146	0.47375626	1.7589024	64	D4_G5
KEGG_WNT_SIGNALING_PATHWAY	Signaling	0.003280841	0.043271108	-0.2916858	-1.48172505	151	D4_G5
GO_POSITIVE_REGULATION_OF_CANONICAL_WNT_SIGNALING_PATHWAY	Signaling	0.002454322	0.042387146	-0.292177	-1.48753044	152	D4_G5
GO_POSITIVE_REGULATION_OF_WNT_SIGNALING_PATHWAY	Signaling	0.000329598	0.013504949	-0.2868467	-1.51692506	195	D4_G5
GO_NOTCH_SIGNALING_PATHWAY	Signaling	0.000741107	0.019189802	-0.3251247	-1.60880526	127	D4_G5
GO_ADENYLATE_CYCLASE_MODULATING_G_PROTEIN_COUPLED_RECEPTOR_SIGNALING_PATHWAY	Signaling	0.002171338	0.042387146	-0.35029	-1.62338569	87	D4_G5
GO_G_PROTEIN_COUPLED_RECEPTOR_SIGNALING_PATHWAY_COUPLED_TO_CYCLIC_NUCLEOTIDE_SECOND_MESSENGER	Signaling	0.000413394	0.013504949	-0.3551089	-1.66799444	94	D4_G5
KEGG_HEDGEHOG_SIGNALING_PATHWAY	Signaling	0.004096424	0.049335187	-0.4048099	-1.67132473	51	D4_G5
GO_POSITIVE_REGULATION_OF_TRANSMEMBRANE_RECEPTOR_PROTEIN_SERINE_THREONINE_KINASE_SIGNALING_PATHWAY	Signaling	0.000438789	0.013504949	-0.3487664	-1.67319674	106	D4_G5
GO_CAMP_MEDIATED_SIGNALING	Signaling	0.003672533	0.046240523	-0.4286317	-1.71701733	45	D4_G5
GO_NEGATIVE_REGULATION_OF_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY_IN_ABSENCE_OF_LIGAND	Signaling	0.003060444	0.042387146	-0.4311311	-1.72702921	45	D4_G5
GO_NEGATIVE_REGULATION_OF_SIGNAL_TRANSDUCTION_IN_ABSENCE_OF_LIGAND	Signaling	0.003060444	0.042387146	-0.4311311	-1.72702921	45	D4_G5
GO_REGULATION_OF_SMOOTHENED_SIGNALING_PATHWAY	Signaling	0.00076205	0.019189802	-0.3809867	-1.73852355	81	D4_G5
GO_NEGATIVE_REGULATION_OF_SMOOTHENED_SIGNALING_PATHWAY	Signaling	0.002934507	0.042387146	-0.505902	-1.7945195	28	D4_G5

PID_WNT_SIGNALING_PATHWAY	Signaling	0.002625397	0.042387146	-0.4940007	-1.79799883	31	D4_G5
GO_CYCLIC_NUCLEOTIDE_MEDIATED_SIGNALING	Signaling	0.001319479	0.030457969	-0.4260031	-1.80629721	57	D4_G5
REACTOME_CRMP5_IN_SEMA3A_SIGNALING	Signaling	0.002899315	0.042387146	-0.5218601	-1.80836156	26	D4_G5
GO_NEGATIVE_REGULATION_OF_CANONICAL_WNT_SIGNALING_PATHWAY	Signaling	0.00031837	0.013504949	-0.3514928	-1.85469883	190	D4_G5
GO_NEGATIVE_REGULATION_OF_WNT_SIGNALING_PATHWAY	Signaling	0.000380807	0.013504949	-0.3523274	-1.89501709	227	D4_G5
GO_REGULATION_OF_BMP_SIGNALING_PATHWAY	Signaling	0.000206526	0.013504949	-0.4147912	-1.94341716	93	D4_G5
GO_SMOOTHENED_SIGNALING_PATHWAY	Signaling	0.000190512	0.013504949	-0.4268114	-1.94763148	81	D4_G5
GO_POSITIVE_REGULATION_OF_SMOOTHENED_SIGNALING_PATHWAY	Signaling	0.000141603	0.013504949	-0.548503	-2.0629813	35	D4_G5
GO_POSITIVE_REGULATION_OF_BMP_SIGNALING_PATHWAY	Signaling	0.000144655	0.013504949	-0.5445222	-2.09320046	38	D4_G5
GO_INTRINSIC_APOPTOTIC_SIGNALING_PATHWAY_IN_RESPONSE_TO_DNA_DAMAGE_BY_P53_CLASS_MEDIATOR	Signaling	0.001698102	0.03618263	0.55380753	1.749904438	35	D4_G6
GO_NEGATIVE_REGULATION_OF_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY_IN_ABSENCE_OF_LIGAND	Signaling	0.001391788	0.034633658	-0.4129416	-1.81362615	45	D4_G6
GO_NEGATIVE_REGULATION_OF_SIGNAL_TRANSDUCTION_IN_ABSENCE_OF_LIGAND	Signaling	0.001391788	0.034633658	-0.4129416	-1.81362615	45	D4_G6
GO_REGULATION_OF_EXTRINSIC_APOPTOTIC_SIGNALING_PATHWAY_IN_ABSENCE_OF_LIGAND	Signaling	0.000988631	0.030427857	-0.3894422	-1.85928155	65	D4_G6
KEGG_HEDGEHOG_SIGNALING_PATHWAY	Signaling	0.000783392	0.030427857	-0.4170603	-1.88766567	51	D4_G6
GO_NEGATIVE_REGULATION_OF_SMOOTHENED_SIGNALING_PATHWAY	Signaling	0.001500375	0.034633658	-0.4928063	-1.91961182	28	D4_G6
GO_POSITIVE_REGULATION_OF_TRANSMEMBRANE_RECEPTOR_PROTEIN_SERINE_THREONINE_KINASE_SIGNALING_PATHWAY	Signaling	0.000980392	0.030427857	-0.3773511	-1.96570976	106	D4_G6
GO_SMOOTHENED_SIGNALING_PATHWAY	Signaling	0.000639795	0.030427857	-0.4061572	-2.02207742	81	D4_G6
REACTOME_CRMP5_IN_SEMA3A_SIGNALING	Signaling	0.000242131	0.028141827	-0.5476399	-2.08818597	26	D4_G6
GO_REGULATION_OF_BMP_SIGNALING_PATHWAY	Signaling	0.00078064	0.030427857	-0.4093108	-2.0976386	93	D4_G6
GO_REGULATION_OF_SMOOTHENED_SIGNALING_PATHWAY	Signaling	0.000639795	0.030427857	-0.4353415	-2.16737321	81	D4_G6
GO_POSITIVE_REGULATION_OF_BMP_SIGNALING_PATHWAY	Signaling	0.000304785	0.028141827	-0.5781906	-2.440514	38	D4_G6
GO_POSITIVE_REGULATION_OF_SMOOTHENED_SIGNALING_PATHWAY	Signaling	0.000284657	0.028141827	-0.6340429	-2.63022386	35	D4_G6
GO_SIGNAL_RELEASE	Signaling	5.02E-05	0.002910581	0.68132323	2.181371476	177	D4_G7
GO_NEUROPEPTIDE_SIGNALING_PATHWAY	Signaling	0.000112227	0.004132848	0.68873184	1.965660728	39	D4_G7
GO_GLUTAMATE_RECEPTOR_SIGNALING_PATHWAY	Signaling	0.000112227	0.004132848	0.68449416	1.953566292	39	D4_G7
REACTOME_CRMP5_IN_SEMA3A_SIGNALING	Signaling	0.00011936	0.004132848	0.71847382	1.925976258	26	D4_G7
GO_MULTICELLULAR_ORGANISMAL_SIGNALING	Signaling	5.05E-05	0.002910581	0.59959143	1.894519545	122	D4_G7
GO_CELL_SURFACE_RECEPTOR_SIGNALING_PATHWAY_INVOLVED_IN_CELL_CELL_SIGNALING	Signaling	5.25E-05	0.002910581	0.61020407	1.854225566	68	D4_G7
GO_SEMAPHORIN_PLEXIN_SIGNALING_PATHWAY	Signaling	0.000282694	0.00783061	0.64847661	1.836397618	37	D4_G7
GO_REGULATION_OF_G_PROTEIN_COUPLED_RECEPTOR_PROTEIN_SIGNALING_PATHWAY	Signaling	5.08E-05	0.002910581	0.58189047	1.829761759	111	D4_G7
REACTOME_SIGNALING_BY_ROBO_RECEPTOR	Signaling	0.000626495	0.013349164	0.64284123	1.806521452	35	D4_G7
GO_CELL_CELL_SIGNALING_INVOLVED_IN_CARDIAC_CONDUCTION	Signaling	0.001050175	0.018181155	0.65290976	1.792878546	30	D4_G7
GO_NEGATIVE_REGULATION_OF_G_PROTEIN_COUPLED_RECEPTOR_PROTEIN_SIGNALING_PATHWAY	Signaling	0.000911266	0.016828037	0.63629804	1.788133679	35	D4_G7
GO_CYCLIC_NUCLEOTIDE_MEDIATED_SIGNALING	Signaling	0.000320941	0.008081889	0.5893863	1.760328742	57	D4_G7
REACTOME_G_ALPHA_I_SIGNALING_EVENTS	Signaling	0.000259121	0.00783061	0.56173505	1.72701829	79	D4_G7
GO_CAMP_MEDIATED_SIGNALING	Signaling	0.002357456	0.034369229	0.58447236	1.701049657	45	D4_G7
GO_SIGNALING_ADAPTOR_ACTIVITY	Signaling	0.001151109	0.01875631	0.54611667	1.663565779	70	D4_G7
GO_POSITIVE_REGULATION_OF_SMALL_GTPASE_MEDIATED_SIGNAL_TRANSDUCTION	Signaling	0.00254723	0.035279134	0.54582018	1.642123942	61	D4_G7
GO_ADENYLATE_CYCLASE_MODULATING_G_PROTEIN_COUPLED_RECEPTOR_SIGNALING_PATHWAY	Signaling	0.000720239	0.014250437	0.52637391	1.630611527	87	D4_G7
GO_G_PROTEIN_COUPLED_RECEPTOR_SIGNALING_PATHWAY_COUPLED_TO_CYCLIC_NUCLEOTIDE_SECOND_MESSENGER	Signaling	0.000460547	0.010630949	0.52249889	1.626136484	94	D4_G7
GO_SECOND_MESSENGER_MEDIATED_SIGNALING	Signaling	5.02E-05	0.002910581	0.5006	1.602459001	176	D4_G7
KEGG_MAPK_SIGNALING_PATHWAY	Signaling	0.001350743	0.020786433	0.43856996	1.415068254	244	D4_G7
GO_SIGNAL_TRANSDUCTION_IN_RESPONSE_TO_DNA_DAMAGE	Signaling	0.003731343	0.046981004	-0.281066	-1.56266126	116	D4_G7
KEGG_P53_SIGNALING_PATHWAY	Signaling	0.003512881	0.046336567	-0.3489019	-1.74896457	71	D4_G7
GO_NEGATIVE_REGULATION_OF_NOTCH_SIGNALING_PATHWAY	Signaling	0.000759961	0.043950813	0.57434465	2.027501177	28	D4_G8
GO_SIGNAL_RELEASE	Signaling	9.02E-05	0.015560049	0.37744329	1.941999689	177	D4_G8
GO_CELL_SURFACE_RECEPTOR_SIGNALING_PATHWAY_INVOLVED_IN_CELL_CELL_SIGNALING	Signaling	0.000793336	0.043950813	0.4387456	1.904531083	68	D4_G8
REACTOME_INTERFERON_SIGNALING	Signaling	0.000221533	0.020454881	-0.3407803	-1.80926779	156	D4_G8
GO_REGULATION_OF_SIGNAL_TRANSDUCTION_BY_P53_CLASS_MEDIATOR	Signaling	0.000112347	0.015560049	-0.3824807	-2.08646143	183	D4_G8