

Biological process	Functional category enriched by PSGs (Reference #)							GSSA results	
	1	2	3	4	5	6	7	SH $\omega$	SL $\omega$
Olfaction / Sensory perception of smell	H	Pr**				Pr**		H**, C**, M**, R** Dmel*, Dsec*, Dere**, Dyak**	
Chemosensory perception	H	Pr**						H**, C**, M**, R** Dmel**, Dsec**, Dere**, Dyak**	
G-protein-mediated signaling	H				H	Pr**		H**, C**, R*	
DNA/nucleic acid metabolism				C			Ds	C*, M**, R**, Dmel**, Dyak**, Dere*	
Amino acid metabolism	H, C						Ds	M**, R**	
Proteolysis							Ds	M**, R**, Dmel**, Dsim*, Dsec*, Dyak**, Dere**	
Fatty acid/Lipid metabolism					H		Ds	M**, R**	
Carbohydrate metabolism							Ds	Dsec*, Dyak*, Dere*	
Adult reproduction and gametogenesis							Ds	Dsec*	
Spermatogenesis and motility		Pr*	Pr					H*, M*, Dmel*	
Immune response		Pr**		H, C		Ro**		C*, M**, R**, Dyak*, Dere*	
Inflammatory response						Ro**		H*, C*, M**, R**	
Defense response						Ro**		H*, C*, M**, R**, Dyak**, Dere*	
Response to wounding						Ro**		H*, M**, R**	
Humoral immune response mediated by circulating immunoglobulin						Ro**		M**, R**	
T-cell-mediated immunity		Pr**						M*	
Natural killer-cell-mediated immunity		Pr*						R*	
B-cell- and antibody-mediated immunity		Pr*						M**, R**	
Response to pest, pathogen, or parasite				H				C*, M**, R**, Dyak*, Dere*	
Stress response					C	Ro**		M**, R**	
Response to external stimulus						Ro**		M**, R*	
Sensory Perception	H	Pr**		H		Pr**		H**, C**, M*, Dmel**, Dsec**, Dyak**, Dere**	R*
Cell surface receptor-mediated signal transduction	H					Pr**		C*	Dmel*, Dyak*, Dere*
Cell adhesion	H							R*	H**, C**, Dmel**, Dere*
Amino acid transport			Pr					M*	R*
Protein amino acid glycosylation			Pr					M*	H*
Amino acid transport	C							M*	C*
Hearing / Perception of sound	H		Pr						M*, R*
Neurological process						Pr**			M**, R**, Dyak*, Dere*
Synaptic transmission			Pr					H**, M**, R**, Dmel**, Dsec**, Dere**, Dyak**	
Signal transduction/intracellular signaling cascade	H, C		Pr				Ds	H**, C**, M**, R**, Dmel**, Dsec*, Dyak**, Dere**	
Ion transport	H				H		Ds	H*, M**, R**, Dmel*, Dsec*, Dere*	
Potassium ion transport			Pr					H*, C*, M**, R**	
Inorganic anion transport			Pr					M*, R*	

Intracellular protein traffic	H							H**, C**, M**, R**, Dmel*, Dsec**, Dyak**, Dere*
Transport						Ds		Dmel**, Dsec**, Dere**, Dyak**
Protein transport			H			Ds		H*, C**, M**, R**, Dmel**, Dsim*, Dsec**, Dere**, Dyak**
Metabolism of cyclic nucleotides	H							M*, R*
Protein metabolism & modification			H, C	C		Ds		H**, C**, M**, R**, Dere*, Dyak*
Phosphate metabolism/phosphorylation			H, C			Ds		H*, C*, M**, R**, Dmel*, Dsec**, Dyak**, Dere*
Purine metabolism	C							M*, R*, Dsec**
Carbohydrate biosynthesis		Pr						M**, R*
Cation transport	H							H*, M**, R**
Nervous system development						Ds		H*, M**, R**, Dmel**, Dsec*, Dyak**, Dere**
Skeletal development	C							M**, R**
Organ development						Ds		H*, M**, R**, Dmel**, Dsec*, Dyak**, Dere**
Post-embryonic development						Ds		M*, Dmel*, Dyak**, Dere*
Embryonic development						Ds		H**, C*, M**, R**, Dyak*, Dere*
Ectoderm development				H				C*, M*, R*, Dmel*, Dyak*, Dere*
Cell proliferation and differentiation	C					Ds		H**, C*, M**, R**, Dmel**, Dsec*, Dyak**, Dere**
Cell cycle						Ds		H*, M*, R*, Dmel**, Dsec**, Dyak**, Dere**
Cell structure/morphogenesis	C					Ds		H**, C*, M**, R**, Dmel**, Dsec*, Dyak**, Dere**
Cell structure and motility	C							H*, M**, R**, Dsec*
Inhibition of apoptosis		Pr*						H*, Dyak*
Cell-cell signalling						Ds		H**, C*, M**, R**, Dmel**, Dsec**, Dere**, Dyak**
Regulation of nucleobase			H, C					H**, C**, M**, R**, Dere*
Translation						Ds		M*, R*, Dmel**, Dsim*, Dsec**, Dyak**, Dere**
Transcription			H, C	C		Ds		H**, C**, M**, R**, Dere*
Protein catabolism			H, C	C				H**, C**, M**, R**
Lipid transport		Pr						
Phosphate transport				H				
Oncogenesis	C							
Interferon-mediated immunity		Pr*						