

Table 3 Classification of maize gene products based on Gene Ontology biological processes

GO ID	Total	AS	%	Biological Process
GO:0009987	6 707	5 291	78.9	cellular process
GO:0008152	5 663	4 430	78.2	metabolic process
GO:0009058	3 353	2 575	76.8	biosynthetic process
GO:0006139	2 901	2 290	78.9	nucleobase-containing compound metabolic process
GO:0016043	1 747	1 382	79.1	cellular component organization
GO:0006950	1 608	1 283	79.8	response to stress
GO:0006810	1 461	1 193	81.7	transport
GO:0007275	1 184	910	76.9	multicellular organism development
GO:0006464	1 092	876	80.2	cellular protein modification process
GO:0009056	965	759	78.7	catabolic process
GO:0007154	923	705	76.4	cell communication
GO:0007165	906	698	77.0	signal transduction
GO:0009628	836	675	80.7	response to abiotic stimulus
GO:0019538	787	645	82.0	protein metabolic process
GO:0009719	776	568	73.2	response to endogenous stimulus
GO:0005975	759	584	76.9	carbohydrate metabolic process
GO:0000003	695	535	77.0	reproduction
GO:0006629	659	534	81.0	lipid metabolic process
GO:0009791	598	456	76.3	post-embryonic development
GO:0009605	513	402	78.4	response to external stimulus
GO:0009653	493	398	80.7	anatomical structure morphogenesis
GO:0007049	490	401	81.8	cell cycle
GO:0006259	474	399	84.2	DNA metabolic process
GO:0006412	455	358	78.7	translation
GO:0030154	436	334	76.6	cell differentiation
GO:0009607	373	290	77.7	response to biotic stimulus
GO:0040007	284	222	78.2	growth
GO:0009908	282	217	77.0	flower development
GO:0006091	252	190	75.4	generation of precursor metabolites and energy
GO:0009790	230	183	79.6	embryo development
GO:0015979	188	135	71.8	photosynthesis
GO:0016049	174	138	79.3	cell growth
GO:0008219	172	145	84.3	cell death
GO:0019725	172	132	76.7	cellular homeostasis
GO:0019748	155	106	68.4	secondary metabolic process
GO:0040029	127	111	87.4	regulation of gene expression, epigenetic
GO:0009991	108	85	78.7	response to extracellular stimulus
GO:0009856	72	53	73.6	pollination
GO:0007267	53	45	84.9	cell-cell signaling
GO:0009606	35	30	85.7	tropism
GO:0009875	19	12	63.2	pollen-pistil interaction
GO:0007610	14	13	92.9	behavior
GO:0009835	12	9	75.0	fruit ripening
GO:0009838	12	8	66.7	abscission
Total	39 215	30 805	78.6	