

Table 5 Gene Ontology classification of biological processes of gene products in the whole set of assembled transcripts and in isoforms generated by alternatively spliced genes in cotton

GO ID	GO Description	Total	AS	AS (%)
GO:0009987	cellular process	12460	5686	45.6
GO:0008152	metabolic process	10791	4815	44.6
GO:0009058	biosynthetic process	5783	2625	45.4
GO:0006139	nucleobase-containing compound metabolic process	5186	2419	46.6
GO:0006950	response to stress	3007	1457	48.5
GO:0016043	cellular component organization	2995	1454	48.5
GO:0006810	transport	2405	1189	49.4
GO:0007275	multicellular organism development	2145	1134	52.9
GO:0009056	catabolic process	2033	889	43.7
GO:0007154	cell communication	1790	905	50.6
GO:0019538	protein metabolic process	1788	818	45.7
GO:0006464	cellular protein modification process	1769	924	52.2
GO:0007165	signal transduction	1726	868	50.3
GO:0009628	response to abiotic stimulus	1609	842	52.3
GO:0009719	response to endogenous stimulus	1472	759	51.6
GO:0000003	reproduction	1278	707	55.3
GO:0005975	carbohydrate metabolic process	1233	497	40.3
GO:0006629	lipid metabolic process	1147	514	44.8
GO:0009605	response to external stimulus	1096	556	50.7
GO:0009791	post-embryonic development	1061	622	58.6
GO:0006412	translation	947	325	34.3
GO:0009653	anatomical structure morphogenesis	915	455	49.7
GO:0030154	cell differentiation	910	446	49.0
GO:0007049	cell cycle	876	418	47.7
GO:0009607	response to biotic stimulus	837	414	49.5
GO:0006259	DNA metabolic process	778	343	44.1
GO:0040007	growth	574	303	52.8
GO:0006091	generation of precursor metabolites and energy	560	170	30.4
GO:0009908	flower development	435	280	64.4
GO:0009790	embryo development	399	224	56.1
GO:0015979	photosynthesis	371	109	29.4
GO:0019748	secondary metabolic process	361	134	37.1
GO:0019725	cellular homeostasis	355	167	47.0
GO:0016049	cell growth	321	171	53.3
GO:0008219	cell death	309	145	46.9
GO:0009991	response to extracellular stimulus	216	107	49.5
GO:0040029	regulation of gene expression, epigenetic	180	100	55.6
GO:0009856	pollination	141	78	55.3
GO:0007267	cell-cell signaling	82	34	41.5
GO:0009606	tropism	64	36	56.3
GO:0009875	pollen-pistil interaction	42	20	47.6
GO:0009835	fruit ripening	38	15	39.5
GO:0007610	behavior	34	14	41.2

Continued Table 5

GO ID	GO Description	Total	AS	AS (%)
GO:0009838	abscission	18	10	55.6
Total		72537	34198	47.1