

Table 4 Classification of maize gene products based on Gene Ontology molecular functions

	Total	AS	%	Molecular function
GO:0005488	4 541	3 570	78.6	binding
GO:0000166	2 103	1 769	84.1	nucleotide binding
GO:0016740	2 048	1 619	79.1	transferase activity
GO:0016787	1 782	1 443	81.0	hydrolase activity
GO:0003824	1 767	1 364	77.2	catalytic activity
GO:0003677	1 345	1 005	74.7	DNA binding
GO:0003674	1 320	1 006	76.2	molecular_function
GO:0003723	761	625	82.1	RNA binding
GO:0005215	748	581	77.7	transporter activity
GO:0016301	714	588	82.4	kinase activity
GO:0005515	648	532	82.1	protein binding
GO:0003700	627	423	67.5	transcription factor activity, sequence-specific DNA binding
GO:0005198	328	245	74.7	structural molecule activity
GO:0003676	212	176	83.0	nucleic acid binding
GO:0030234	178	133	74.7	enzyme regulator activity
GO:0004518	168	133	79.2	nuclease activity
GO:0008289	157	132	84.1	lipid binding
GO:0030246	134	106	79.1	carbohydrate binding
GO:0004871	129	105	81.4	signal transducer activity
GO:0008135	83	69	83.1	translation factor activity, RNA binding
GO:0004872	77	60	77.9	receptor activity
GO:0003682	64	44	68.8	chromatin binding
GO:0003774	47	39	83.0	motor activity
GO:0005102	42	34	81.0	receptor binding
GO:0019825	4	2	50.0	oxygen binding
GO:0045182	4	3	75.0	translation regulator activity
Total	20 031	15 806	78.9	