

Supplementary Table 3. COG functional categories of the BRMEA1^T genome sequence

Categories		Count	Ratio (%)
Information storage and processing			
J	Translation, ribosomal structure, and biogenesis	179	3.62
A	RNA processing and modification	0	0.00
K	Transcription	333	6.73
L	Replication, recombination, and repair	285	5.76
Cellular processes and signaling			
B	Chromatin structure and dynamics	1	0.02
D	Cell cycle control, cell division, chromosome partitioning	42	0.85
Y	Nuclear structure	0	0.00
V	Defense mechanisms	69	1.40
T	Signal transduction	230	4.65
M	Cell wall/membrane/envelope biogenesis	216	4.37
N	Cell motility	41	0.83
Z	Cytoskeleton	1	0.02
W	Extracellular structures	0	0.00
U	Intracellular trafficking, secretion, and vesicular transport	35	0.71
O	Posttranslational modification, protein turnover, chaperones	119	2.40
Metabolism			
C	Energy production and conversion	226	4.57
G	Carbohydrate transport and metabolism	249	5.03
E	Amino acid transport and metabolism	338	6.83
F	Nucleotide transport and metabolism	83	1.68
H	Coenzyme transport and metabolism	114	2.30
I	Lipid transport and metabolism	118	2.39
P	Inorganic ion transport and metabolism	191	3.86
Q	Secondary metabolites biosynthesis, transport, and catabolism	51	1.03
Poorly characterized			
R	General function prediction only	601	12.15
S	Function unknown	1,424	28.79