

Table 2

Gene Name	Method	Putative Annotation
VNG0019H	PCONS/3D-jury	evidence for Sin3b like homodimer
VNG0049H	PSI-BLAST	PSI-BLAST hit to methyltransferase, PDB-BLAST hit to Protein-L-Isoaspartate O-Methyltransferase
VNG0168H	no matches	Na
VNG0209H-domain1	Pfam	Phage integrase, N-terminal SAM-like domain (PF02899)
VNG0209H-domain2	Pfam	Phage integrase family (PF00589)
VNG0237H	PSI-BLAST	DNA-directed RNA polymerase subunit RPC10 (COG1996)
VNG0247C	Pfam	HTH DNA binding (PF01381)
VNG0361C-domain1	Pfam	Zn-finger (PF01428)
VNG0361C-domain2	Pfam	rhomboid-like protein (PF01694)
VNG0650C-domain1	Pfam	RecJ (PF01368)
VNG0650C-domain2	Pfam	RecJ (PF02272)
VNG0659H	TMHMM + Rosetta	2 transmembrane helices
VNG0765H	Rosetta + weak BLAST	blast hit to HTH (e-val = 0.6), Rosetta match to RNA binding
VNG0788H	No matches	Na
VNG0868H	Pfam	removal of oxidized guanine (PF00293)
VNG0983C-domain1	Pfam/PSI-BLAST	K transporter (PF02254)
VNG0983C-domain2	Pfam/PSI-BLAST	RecJ-like (PF01368)
VNG1090H	Pfam	Domain of unknown function (PF03966)
VNG1318H	Rosetta	nucleic acid binding/transcriptional regulator
VNG1534H	TMHMM	single transmembrane helix
VNG1561C (VNG1561Cm in NCBI)	PDB-BLAST	protoheme ferrolyase (1ak1; EC 4.99.1.1)
VNG1562H	Rosetta	cytochrome C
VNG1564H	PDB-BLAST	transcriptional inhibitor (1erj), Tup1 heme biosynthesis regulator
VNG1688C-domain1	PSI-BLAST + SCOP	nucleic acid binding domain
VNG1688C-domain2	PSI-BLAST + SCOP	SAM-dependant methyltransferase
VNG1699C	PSI-BLAST	P29 RnaseP
VNG1743C-domain1	Rosetta	Threonyl-tRNA synthetase (1qf6A3)
VNG1743C-domain2	PSI-BLAST	rpoM like
VNG1845C	Pfam	GCN5-related N-acetyltransferase
VNG1865H	Rosetta	match to cyclin A3
Vng2099C	PF01042	Endoribonuclease L-PSP
VNG2333C-domain1	Pfam	RecJ (PF01368)
VNG2333C-domain2	Pfam	RecJ (PF02272)
VNG2519H-domain1	Pfam	RecJ (PF01368)
VNG2519H-domain2	Pfam	RecJ (PF02272)
VNG5008H	no matches	Na
VNG5053H	no matches	Na
VNG6182H	Pfam	Transposase IS200 like
VNG6183C	Pfam	RecJ (PF01368)
VNG6183C	Pfam	RecJ (PF02272)
VNG6195H	Pfam + Rosetta	Zn-finger in Ran binding protein
VNG6332H	Rosetta	DNA repair protein Rad51