

**Table S3 Detailed protein annotation of re-predicted PH01000878G0620 by Pfam and NCBI.**

Name	Accession	Description	Interval		E-value
TIFY	PF06200.10	TIFY domain	80	114	3.1E-12
CCT	PF06203.10	CCT motif	139	183	2.18E-18
UBN2_3	pfam14244	gag-polypeptide of LTR copia-type	282	381	7.74E-06
RVT_2	pfam07727	Reverse transcriptase (RNA-dependent DNA polymerase); It is usually indicative of a mobile element such as a retrotransposon or retrovirus.	758	795	1.69E-03
RNase_HI_RT_Ty1	cd09272	Ty1/Copia family of RNase HI in long-term repeat retroelements	857	888	4.05E-03
ZnF_GATA	PF00320.23	GATA zinc finger	889	924	2.70E-12
DUF3546	pfam12066	Domain of unknown function (DUF3546)	1157	1253	4.34E-32
ARS2	pfam07727	Arsenite-resistance protein 2	1408	1620	3.40E-33