Skinny gene at 63560-63949 bp hits several LAGLIDADG endonuclease, homing endonuclease, HNH endonuclease, with low similarity (less than 60%). Wondering whether to call it with the general “Hydrolase” or “NKF”? Below are the relevant BLASTp and HHPred data:

The hit in PDB is (LAGLIDADG endonuclease):

<https://www.rcsb.org/structure/1m5x>

The amino acid sequence is:

MDLAYLGGFFDGEGNVGLYKSGGESPRLRVQVFQNHGASQDRLMHEIHDTFGGTLHDRGTGYLYSASGSRAVDLLTQLRPHLRLKLEQADEALEWWRNRTAERFRSRTAEEVAYDESAMTRLKELKRAGZ

BLASTp results from phagesDB

Text

Description automatically generated

HHPred data: <https://toolkit.tuebingen.mpg.de/jobs/4283447>

Table

Description automatically generated

Table

Description automatically generated

Graphical user interface, application, table

Description automatically generated