GalacticEye\_6 (stop site 6295)

Function: terminase, small subunit?

**Evidence For:**

* Downstream gene is terminase, large subunit. (Synteny)
* A few other genes in this pham have called terminase, small subunit (all CS phages); they have e-value of 0 on PhagesDB BLAST.
* PCOILS appears to predict some coil-coil (I’m not sure if I’m interpreting this correctly
* DNABIND predicts DNA-binding function

**Evidence Against:**

* NO HHpred hits of significance for this gene when searching thru PECAAN (SCOPE, PDB, PFam).
* NO evidence of HTH-binding function

Relevant SEA-PHAGES forum posts:

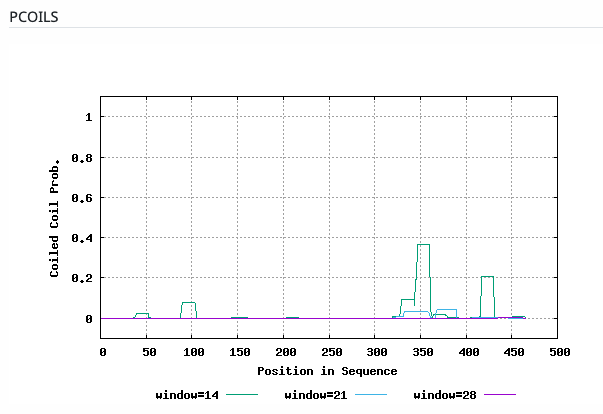
<https://seaphages.org/forums/topic/4736/>

<https://seaphages.org/forums/topic/4735/> (case study by Debbie)

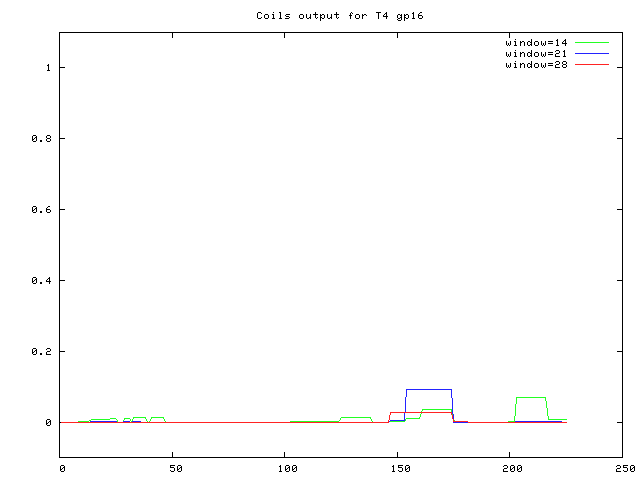
<https://seaphages.org/forums/topic/4942/?page=1#post-7410>

PCOILS results (below)

<https://toolkit.tuebingen.mpg.de/jobs/GalacticEye_6>



**Positive control**: Posted by washj in forums, t4 gp16 small terminase:



GalacticEye\_6 DNABIND prediction:

