



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 291367 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291367 has 34 members, 3 are drafts.

Phages represented in each track:

- Track 1 : HuhtaEnerson15_71, Discoknowium_71, Cuco_72, Coog_70, Midas2_70, PickleBack_74, Lev2_74, Jovo_73, Dublin_73, ForGetIt_74, Conspiracy_74, AgentM_73, Tiger_72, Bonamassa_73, Florence1_70, MarysWell_73, LittleCherry_72, Aragog_73, Phlorence_72, Micasa_73, Florence4_71, Tarynearal_72, Swirley_73
- Track 2 : Theia_72
- Track 3 : EITiger69_79, Naca_76, Chadwick_78, Benedict_77, Jabiru_75, UnionJack_77
- Track 4 : Prin Ashe11_71
- Track 5 : PetterN_81, Scorpia_76, Airmid_76

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 3, it was called in 31 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AgentM_73, Airmid_76, Aragog_73, Benedict_77, Bonamassa_73, Chadwick_78, Conspiracy_74, Coog_70, Cuco_72, Discoknowium_71, Dublin_73, EITiger69_79, Florence1_70, Florence4_71, ForGetIt_74, HuhtaEnerson15_71, Jabiru_75, Jovo_73, Lev2_74, LittleCherry_72, MarysWell_73, Micasa_73, Midas2_70, Naca_76, PetterN_81, Phlorence_72, PickleBack_74, Scorpia_76, Swirley_73, Tarynearal_72, Theia_72, Tiger_72, UnionJack_77,

Genes that have the "Most Annotated" start but do not call it:

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Genes that do not have the "Most Annotated" start:

- Prin Ashe11_71,

Summary by start number:

Start 1:

- Found in 1 of 34 (2.9%) of genes in pham

- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Prinashe11_71 (A5),

Start 3:

- Found in 33 of 34 (97.1%) of genes in pham
- Manual Annotations of this start: 31 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AgentM_73 (A5), Airmid_76 (A5), Aragog_73 (A5), Benedict_77 (A5), Bonamassa_73 (A5), Chadwick_78 (A5), Conspiracy_74 (A5), Coog_70 (A5), Cuco_72 (A5), Discoknowium_71 (A5), Dublin_73 (A5), ElTiger69_79 (A5), Florence1_70 (A5), Florence4_71 (A5), ForGetIt_74 (A5), HuhtaEnerson15_71 (A5), Jabiru_75 (A5), Jovo_73 (A5), Lev2_74 (A5), LittleCherry_72 (A5), MarysWell_73 (A5), Micasa_73 (A5), Midas2_70 (A5), Naca_76 (A5), PetterN_81 (A5), Phlorence_72 (A5), PickleBack_74 (A5), Scorpia_76 (A5), Swirley_73 (A5), Tarynearal_72 (A5), Theia_72 (A5), Tiger_72 (A5), UnionJack_77 (A5),

Summary by clusters:

There is one cluster represented in this pham: A5

Info for manual annotations of cluster A5:

- Start number 3 was manually annotated 31 times for cluster A5.

Gene Information:

Gene: AgentM_73 Start: 44762, Stop: 44610, Start Num: 3

Candidate Starts for AgentM_73:

(Start: 3 @44762 has 31 MA's), (4, 44741), (5, 44702), (6, 44645), (7, 44642),

Gene: Airmid_76 Start: 45579, Stop: 45427, Start Num: 3

Candidate Starts for Airmid_76:

(2, 45585), (Start: 3 @45579 has 31 MA's), (4, 45561), (6, 45465), (7, 45462),

Gene: Aragog_73 Start: 44780, Stop: 44628, Start Num: 3

Candidate Starts for Aragog_73:

(Start: 3 @44780 has 31 MA's), (4, 44759), (5, 44720), (6, 44663), (7, 44660),

Gene: Benedict_77 Start: 45311, Stop: 45159, Start Num: 3

Candidate Starts for Benedict_77:

(2, 45317), (Start: 3 @45311 has 31 MA's), (4, 45293), (6, 45197), (7, 45194), (8, 45191),

Gene: Bonamassa_73 Start: 44950, Stop: 44798, Start Num: 3

Candidate Starts for Bonamassa_73:

(Start: 3 @44950 has 31 MA's), (4, 44929), (5, 44890), (6, 44833), (7, 44830),

Gene: Chadwick_78 Start: 45206, Stop: 45054, Start Num: 3

Candidate Starts for Chadwick_78:

(2, 45212), (Start: 3 @45206 has 31 MA's), (4, 45188), (6, 45092), (7, 45089), (8, 45086),

Gene: Conspiracy_74 Start: 45002, Stop: 44850, Start Num: 3
Candidate Starts for Conspiracy_74:
(Start: 3 @45002 has 31 MA's), (4, 44981), (5, 44942), (6, 44885), (7, 44882),

Gene: Coog_70 Start: 44765, Stop: 44613, Start Num: 3
Candidate Starts for Coog_70:
(Start: 3 @44765 has 31 MA's), (4, 44744), (5, 44705), (6, 44648), (7, 44645),

Gene: Cuco_72 Start: 44625, Stop: 44473, Start Num: 3
Candidate Starts for Cuco_72:
(Start: 3 @44625 has 31 MA's), (4, 44604), (5, 44565), (6, 44508), (7, 44505),

Gene: Discoknowium_71 Start: 44519, Stop: 44367, Start Num: 3
Candidate Starts for Discoknowium_71:
(Start: 3 @44519 has 31 MA's), (4, 44498), (5, 44459), (6, 44402), (7, 44399),

Gene: Dublin_73 Start: 44897, Stop: 44745, Start Num: 3
Candidate Starts for Dublin_73:
(Start: 3 @44897 has 31 MA's), (4, 44876), (5, 44837), (6, 44780), (7, 44777),

Gene: EITiger69_79 Start: 46000, Stop: 45848, Start Num: 3
Candidate Starts for EITiger69_79:
(2, 46006), (Start: 3 @46000 has 31 MA's), (4, 45982), (6, 45886), (7, 45883), (8, 45880),

Gene: Florence1_70 Start: 44460, Stop: 44308, Start Num: 3
Candidate Starts for Florence1_70:
(Start: 3 @44460 has 31 MA's), (4, 44439), (5, 44400), (6, 44343), (7, 44340),

Gene: Florence4_71 Start: 44460, Stop: 44308, Start Num: 3
Candidate Starts for Florence4_71:
(Start: 3 @44460 has 31 MA's), (4, 44439), (5, 44400), (6, 44343), (7, 44340),

Gene: ForGetIt_74 Start: 45027, Stop: 44875, Start Num: 3
Candidate Starts for ForGetIt_74:
(Start: 3 @45027 has 31 MA's), (4, 45006), (5, 44967), (6, 44910), (7, 44907),

Gene: HuhtaEnerson15_71 Start: 44603, Stop: 44451, Start Num: 3
Candidate Starts for HuhtaEnerson15_71:
(Start: 3 @44603 has 31 MA's), (4, 44582), (5, 44543), (6, 44486), (7, 44483),

Gene: Jabiru_75 Start: 45166, Stop: 45014, Start Num: 3
Candidate Starts for Jabiru_75:
(2, 45172), (Start: 3 @45166 has 31 MA's), (4, 45148), (6, 45052), (7, 45049), (8, 45046),

Gene: Jovo_73 Start: 45283, Stop: 45131, Start Num: 3
Candidate Starts for Jovo_73:
(Start: 3 @45283 has 31 MA's), (4, 45262), (5, 45223), (6, 45166), (7, 45163),

Gene: Lev2_74 Start: 44915, Stop: 44763, Start Num: 3
Candidate Starts for Lev2_74:
(Start: 3 @44915 has 31 MA's), (4, 44894), (5, 44855), (6, 44798), (7, 44795),

Gene: LittleCherry_72 Start: 44473, Stop: 44321, Start Num: 3

Candidate Starts for LittleCherry_72:

(Start: 3 @44473 has 31 MA's), (4, 44452), (5, 44413), (6, 44356), (7, 44353),

Gene: MarysWell_73 Start: 45140, Stop: 44988, Start Num: 3

Candidate Starts for MarysWell_73:

(Start: 3 @45140 has 31 MA's), (4, 45119), (5, 45080), (6, 45023), (7, 45020),

Gene: Micasa_73 Start: 44862, Stop: 44710, Start Num: 3

Candidate Starts for Micasa_73:

(Start: 3 @44862 has 31 MA's), (4, 44841), (5, 44802), (6, 44745), (7, 44742),

Gene: Midas2_70 Start: 44765, Stop: 44613, Start Num: 3

Candidate Starts for Midas2_70:

(Start: 3 @44765 has 31 MA's), (4, 44744), (5, 44705), (6, 44648), (7, 44645),

Gene: Naca_76 Start: 46054, Stop: 45902, Start Num: 3

Candidate Starts for Naca_76:

(2, 46060), (Start: 3 @46054 has 31 MA's), (4, 46036), (6, 45940), (7, 45937), (8, 45934),

Gene: PetterN_81 Start: 45841, Stop: 45689, Start Num: 3

Candidate Starts for PetterN_81:

(2, 45847), (Start: 3 @45841 has 31 MA's), (4, 45823), (6, 45727), (7, 45724),

Gene: Phlorence_72 Start: 44662, Stop: 44510, Start Num: 3

Candidate Starts for Phlorence_72:

(Start: 3 @44662 has 31 MA's), (4, 44641), (5, 44602), (6, 44545), (7, 44542),

Gene: PickleBack_74 Start: 44837, Stop: 44685, Start Num: 3

Candidate Starts for PickleBack_74:

(Start: 3 @44837 has 31 MA's), (4, 44816), (5, 44777), (6, 44720), (7, 44717),

Gene: Prinashe11_71 Start: 44485, Stop: 44324, Start Num: 1

Candidate Starts for Prinashe11_71:

(1, 44485), (4, 44455), (5, 44416), (6, 44359), (7, 44356),

Gene: Scorpia_76 Start: 45412, Stop: 45260, Start Num: 3

Candidate Starts for Scorpia_76:

(2, 45418), (Start: 3 @45412 has 31 MA's), (4, 45394), (6, 45298), (7, 45295),

Gene: Swirley_73 Start: 44806, Stop: 44654, Start Num: 3

Candidate Starts for Swirley_73:

(Start: 3 @44806 has 31 MA's), (4, 44785), (5, 44746), (6, 44689), (7, 44686),

Gene: Tarynearal_72 Start: 44642, Stop: 44490, Start Num: 3

Candidate Starts for Tarynearal_72:

(Start: 3 @44642 has 31 MA's), (4, 44621), (5, 44582), (6, 44525), (7, 44522),

Gene: Theia_72 Start: 45127, Stop: 44975, Start Num: 3

Candidate Starts for Theia_72:

(2, 45133), (Start: 3 @45127 has 31 MA's), (4, 45109), (7, 45010),

Gene: Tiger_72 Start: 44583, Stop: 44431, Start Num: 3

Candidate Starts for Tiger_72:

(Start: 3 @44583 has 31 MA's), (4, 44562), (5, 44523), (6, 44466), (7, 44463),

Gene: UnionJack_77 Start: 45076, Stop: 44924, Start Num: 3

Candidate Starts for UnionJack_77:

(2, 45082), (Start: 3 @45076 has 31 MA's), (4, 45058), (6, 44962), (7, 44959), (8, 44956),