Pham 289701

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 289701 Report

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

Pham number 289701 has 25 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Gustav_61
• Track 2 : Turuncu_10
• Track 3 : Dalilpop_12
• Track 4 : Flapper_10
• Track 5 : GRU1_94
• Track 6 : Outis_9, StarStruck_9
• Track 7 : MerCougar_9
• Track 8 : Buggaboo_9, SuperSulley_9
• Track 9 : Kabluna_10, Bonum_10
• Track 10 : Commandaria_10
• Track 11 : NosilaM_10
• Track 12 : Sukkupi_9, Yndexa_9, BiPauneto_9
• Track 13 : NadineRae_8
• Track 14 : Marietta_8, WhoseManz_8
• Track 15 : Pemberton_9
• Track 16 : IDyn_9
• Track 17 : Scuba_13
• Track 18 : Fury_13, Pleakley_13

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

The start number called the most often in the published annotations is 11, it was called in 11 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bonum_10, Buggaboo_9, Dalilpop_12, Flapper_10, GRU1_94, Kabluna_10, MerCougar_9, NosilaM_10, Outis_9, StarStruck_9, SuperSulley_9, Turuncu_10,

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

Genes that do not have the "Most Annotated" start:
• BiPauneto_9, Commandaria_10, Fury_13, Gustav_61, IDyn_9, Marietta_8, NadineRae_8, Pemberton_9, Pleakley_13, Scuba_13, Sukkupi_9, WhoseManz_8,

Yndexa_9,

Summary by start number:

Start 8:
- Found in 4 of 25 (16.0%) of genes in pham
- Manual Annotations of this start: 3 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BiPauneto_9 (CR4), Pemberton_9 (CR4), Sukkupi_9 (CR4), Yndexa_9 (CR4),

Start 9:
- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NadineRae_8 (CR4),

Start 10:
- Found in 4 of 25 (16.0%) of genes in pham
- Manual Annotations of this start: 3 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fury_13 (CR5), Gustav_61 (CD), Pleakley_13 (CR5), Scuba_13 (CR5),

Start 11:
- Found in 12 of 25 (48.0%) of genes in pham
- Manual Annotations of this start: 11 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bonum_10 (CR2), Buggaboo_9 (CR2), Dalilpop_12 (CR1), Flapper_10 (CR1), GRU1_94 (CR1), Kabluna_10 (CR2), MerCougar_9 (CR2), NosilaM_10 (CR2), Outis_9 (CR2), StarStruck_9 (CR2), SuperSulley_9 (CR2), Turuncu_10 (CR1),

Start 12:
- Found in 3 of 25 (12.0%) of genes in pham
- Manual Annotations of this start: 3 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: IDyn_9 (CR4), Marietta_8 (CR4), WhoseManz_8 (CR4),

Start 13:
- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Commandaria_10 (CR2),

Summary by clusters:

There are 5 clusters represented in this pham: CR2, CD, CR1, CR4, CR5,

Info for manual annotations of cluster CD:
- Start number 10 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster CR1:
•Start number 11 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 11 was manually annotated 8 times for cluster CR2.
•Start number 13 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CR4:
•Start number 8 was manually annotated 3 times for cluster CR4.
•Start number 9 was manually annotated 1 time for cluster CR4.
•Start number 12 was manually annotated 3 times for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 10 was manually annotated 2 times for cluster CR5.

Gene Information:

Gene: BiPauneto_9 Start: 4386, Stop: 4853, Start Num: 8
Candidate Starts for BiPauneto_9:
(Start: 8 @4386 has 3 MA's), (22, 4542), (26, 4557), (27, 4560), (38, 4743), (40, 4755),

Gene: Bonum_10 Start: 5796, Stop: 6227, Start Num: 11
Candidate Starts for Bonum_10:
(2, 5427), (Start: 11 @5796 has 11 MA's), (16, 5817), (17, 5832), (19, 5853), (21, 5898), (27, 5946), (28, 5964), (29, 6000), (43, 6177),

Gene: Buggaboo_9 Start: 5315, Stop: 5746, Start Num: 11
Candidate Starts for Buggaboo_9:
(Start: 11 @5315 has 11 MA's), (16, 5336), (21, 5417), (27, 5465), (28, 5483), (29, 5519), (43, 5696),

Gene: Commandaria_10 Start: 5673, Stop: 6080, Start Num: 13
Candidate Starts for Commandaria_10:
(5, 5541), (6, 5610), (7, 5613), (Start: 13 @5673 has 1 MA's), (16, 5688), (25, 5793), (31, 5886), (32, 5910), (33, 5916), (36, 5964), (44, 6054),

Gene: Dalilpop_12 Start: 6793, Stop: 7221, Start Num: 11
Candidate Starts for Dalilpop_12:
(3, 6643), (Start: 11 @6793 has 11 MA's), (16, 6814), (25, 6937), (27, 6943), (28, 6961), (30, 7000), (43, 7174),

Gene: Flapper_10 Start: 5630, Stop: 6058, Start Num: 11
Candidate Starts for Flapper_10:
(Start: 11 @5630 has 11 MA's), (16, 5651), (27, 5780), (28, 5798), (30, 5837), (43, 6011),

Gene: Fury_13 Start: 5917, Stop: 6342, Start Num: 10
Candidate Starts for Fury_13:
(Start: 10 @5917 has 3 MA's), (15, 5944), (18, 5974), (35, 6214), (41, 6256),

Gene: GRU1_94 Start: 64725, Stop: 65153, Start Num: 11
Candidate Starts for GRU1_94:

(Start: 11 @64725 has 11 MA's), (16, 64746), (25, 64869), (27, 64875), (28, 64893), (30, 64932), (43, 65106),

Gene: Gustav_61 Start: 41194, Stop: 40802, Start Num: 10
Candidate Starts for Gustav_61:
(4, 41308), (Start: 10 @41194 has 3 MA's), (22, 41083), (23, 41080), (24, 41077), (27, 41065), (33, 40960), (37, 40915), (39, 40903), (43, 40849),

Gene: IDyn_9 Start: 4709, Stop: 5167, Start Num: 12
Candidate Starts for IDyn_9:
(Start: 12 @4709 has 3 MA's), (16, 4733), (20, 4790), (22, 4856), (26, 4871), (27, 4874), (38, 5057), (40, 5069),

Gene: Kabluna_10 Start: 5187, Stop: 5618, Start Num: 11
Candidate Starts for Kabluna_10:
(2, 4818), (Start: 11 @5187 has 11 MA's), (16, 5208), (17, 5223), (19, 5244), (21, 5289), (27, 5337), (28, 5355), (29, 5391), (43, 5568),

Gene: Marietta_8 Start: 4121, Stop: 4579, Start Num: 12
Candidate Starts for Marietta_8:
(Start: 12 @4121 has 3 MA's), (20, 4202), (22, 4268), (26, 4283), (27, 4286), (38, 4469), (40, 4481),

Gene: MerCougar_9 Start: 5538, Stop: 5972, Start Num: 11
Candidate Starts for MerCougar_9:
(Start: 11 @5538 has 11 MA's), (27, 5691), (43, 5922),

Gene: NadineRae_8 Start: 3822, Stop: 4295, Start Num: 9
Candidate Starts for NadineRae_8:
(Start: 9 @3822 has 1 MA's), (16, 3855), (18, 3879), (20, 3912), (27, 3999), (40, 4197),

Gene: NosilaM_10 Start: 6075, Stop: 6506, Start Num: 11
Candidate Starts for NosilaM_10:
(2, 5706), (Start: 11 @6075 has 11 MA's), (14, 6090), (16, 6096), (17, 6111), (19, 6132), (21, 6177), (28, 6243), (29, 6279), (33, 6345), (34, 6363), (43, 6456),

Gene: Outis_9 Start: 5229, Stop: 5666, Start Num: 11
Candidate Starts for Outis_9:
(Start: 11 @5229 has 11 MA's), (17, 5268), (18, 5277), (21, 5334), (27, 5385), (28, 5403), (43, 5616),

Gene: Pemberton_9 Start: 4236, Stop: 4703, Start Num: 8
Candidate Starts for Pemberton_9:
(1, 3747), (2, 3864), (Start: 8 @4236 has 3 MA's), (22, 4392), (26, 4407), (27, 4410), (38, 4593), (40, 4605),

Gene: Pleakley_13 Start: 5917, Stop: 6342, Start Num: 10
Candidate Starts for Pleakley_13:
(Start: 10 @5917 has 3 MA's), (15, 5944), (18, 5974), (35, 6214), (41, 6256),

Gene: Scuba_13 Start: 6015, Stop: 6443, Start Num: 10
Candidate Starts for Scuba_13:
(Start: 10 @6015 has 3 MA's), (15, 6042), (16, 6048), (18, 6072), (41, 6357), (42, 6381),

Gene: StarStruck_9 Start: 5229, Stop: 5666, Start Num: 11

Candidate Starts for StarStruck_9:
(Start: 11 @5229 has 11 MA's), (17, 5268), (18, 5277), (21, 5334), (27, 5385), (28, 5403), (43, 5616),

Gene: Sukkupi_9 Start: 4277, Stop: 4744, Start Num: 8
Candidate Starts for Sukkupi_9:
(Start: 8 @4277 has 3 MA's), (22, 4433), (26, 4448), (27, 4451), (38, 4634), (40, 4646),

Gene: SuperSulley_9 Start: 5315, Stop: 5746, Start Num: 11
Candidate Starts for SuperSulley_9:
(Start: 11 @5315 has 11 MA's), (16, 5336), (21, 5417), (27, 5465), (28, 5483), (29, 5519), (43, 5696),

Gene: Turuncu_10 Start: 5145, Stop: 5576, Start Num: 11
Candidate Starts for Turuncu_10:
(Start: 11 @5145 has 11 MA's), (27, 5295), (28, 5313), (43, 5529),

Gene: WhoseManz_8 Start: 3732, Stop: 4190, Start Num: 12
Candidate Starts for WhoseManz_8:
(Start: 12 @3732 has 3 MA's), (20, 3813), (22, 3879), (26, 3894), (27, 3897), (38, 4080), (40, 4092),

Gene: Yndexa_9 Start: 4277, Stop: 4744, Start Num: 8
Candidate Starts for Yndexa_9:
(Start: 8 @4277 has 3 MA's), (22, 4433), (26, 4448), (27, 4451), (38, 4634), (40, 4646),