Pham 348098


8
9
10
11
12
20
1: Lannister_60
2
4
6
7
8
9
10
13
16
20
2: Godpower_63 + 1
2
4
6
8
9
10
12
13
21
22
3: Nabi_63
2
4
6
8
9
10
11
12
13
21
22
4: Zemlya_63 + 2
9
10
12
13
15
17
20
5: Nanodon_62
1
2
3
4
6
8
9
10
13
16
18
20
6: Goby_63 + 1
2
4
6
8
9
10
11
12
13
21
7: Dattran_64 + 1
2
4
6
7
8
9
10
13
16
20
23
8: Lika_62
2
4
5
6
7
8
9
10
11
12
13
14
21
22
9: Rana_63 + 1
9
10
12
19
20
10: South40_61 + 2

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 348098 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348098 has 18 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Lannister_60
• Track 2 : Godpower_63, Sujidade_63
• Track 3 : Nabi_63
• Track 4 : Zemlya_63, Brataylor_64, Danzina_63
• Track 5 : Nanodon_62
• Track 6 : Goby_63, Toma_63
• Track 7 : Dattran_64, Celeste_63
• Track 8 : Lika_62
• Track 9 : Rana_63, Lorelei_62
• Track 10 : South40_61, Katalie_61, RedBear_62

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

The start number called the most often in the published annotations is 9, it was called in 18 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Brataylor_64, Celeste_63, Danzina_63, Dattran_64, Goby_63, Godpower_63, Katalie_61, Lannister_60, Lika_62, Lorelei_62, Nabi_63, Nanodon_62, Rana_63, RedBear_62, South40_61, Sujidade_63, Toma_63, Zemlya_63,

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

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

Summary by start number:

Start 9:
• Found in 18 of 18 (100.0%) of genes in pham
• Manual Annotations of this start: 18 of 18
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Brataylor_64 (BD1), Celeste_63 (BD1), Danzina_63 (BD1), Dattran_64 (BD1), Goby_63 (BD1), Godpower_63 (BD1), Katalie_61 (BD1), Lannister_60 (BD1), Lika_62 (BD1), Lorelei_62 (BD1), Nabi_63 (BD1), Nanodon_62 (BD1), Rana_63 (BD1), RedBear_62 (BD1), South40_61 (BD1), Sujidade_63 (BD1), Toma_63 (BD1), Zemlya_63 (BD1),

Summary by clusters:

There is one cluster represented in this pham: BD1

Info for manual annotations of cluster BD1:
•Start number 9 was manually annotated 18 times for cluster BD1.

Gene Information:

Gene: Brataylor_64 Start: 44635, Stop: 44360, Start Num: 9
Candidate Starts for Brataylor_64:
(2, 44980), (4, 44842), (6, 44788), (8, 44710), (Start: 9 @44635 has 18 MA's), (10, 44623), (11, 44593), (12, 44575), (13, 44560), (21, 44440), (22, 44410),

Gene: Celeste_63 Start: 44100, Stop: 43825, Start Num: 9
Candidate Starts for Celeste_63:
(2, 44445), (4, 44307), (6, 44253), (8, 44175), (Start: 9 @44100 has 18 MA's), (10, 44088), (11, 44058), (12, 44040), (13, 44025), (21, 43905),

Gene: Danzina_63 Start: 44349, Stop: 44074, Start Num: 9
Candidate Starts for Danzina_63:
(2, 44694), (4, 44556), (6, 44502), (8, 44424), (Start: 9 @44349 has 18 MA's), (10, 44337), (11, 44307), (12, 44289), (13, 44274), (21, 44154), (22, 44124),

Gene: Dattran_64 Start: 44491, Stop: 44216, Start Num: 9
Candidate Starts for Dattran_64:
(2, 44836), (4, 44698), (6, 44644), (8, 44566), (Start: 9 @44491 has 18 MA's), (10, 44479), (11, 44449), (12, 44431), (13, 44416), (21, 44296),

Gene: Goby_63 Start: 44947, Stop: 44642, Start Num: 9
Candidate Starts for Goby_63:
(1, 45328), (2, 45316), (3, 45235), (4, 45154), (6, 45100), (8, 45022), (Start: 9 @44947 has 18 MA's), (10, 44935), (13, 44872), (16, 44803), (18, 44764), (20, 44725),

Gene: Godpower_63 Start: 44223, Stop: 43918, Start Num: 9
Candidate Starts for Godpower_63:
(2, 44592), (4, 44430), (6, 44376), (7, 44325), (8, 44298), (Start: 9 @44223 has 18 MA's), (10, 44211), (13, 44148), (16, 44079), (20, 44001),

Gene: Katalie_61 Start: 45367, Stop: 45062, Start Num: 9
Candidate Starts for Katalie_61:
(Start: 9 @45367 has 18 MA's), (10, 45355), (12, 45307), (19, 45169), (20, 45145),

Gene: Lannister_60 Start: 43737, Stop: 43432, Start Num: 9
Candidate Starts for Lannister_60:

(8, 43812), (Start: 9 @43737 has 18 MA's), (10, 43725), (11, 43695), (12, 43677), (20, 43515),

Gene: Lika_62 Start: 44776, Stop: 44471, Start Num: 9
Candidate Starts for Lika_62:
(2, 45145), (4, 44983), (6, 44929), (7, 44878), (8, 44851), (Start: 9 @44776 has 18 MA's), (10, 44764), (13, 44701), (16, 44632), (20, 44554), (23, 44518),

Gene: Lorelei_62 Start: 44107, Stop: 43832, Start Num: 9
Candidate Starts for Lorelei_62:
(2, 44452), (4, 44314), (5, 44308), (6, 44260), (7, 44209), (8, 44182), (Start: 9 @44107 has 18 MA's), (10, 44095), (11, 44065), (12, 44047), (13, 44032), (14, 44008), (21, 43912), (22, 43882),

Gene: Nabi_63 Start: 44640, Stop: 44365, Start Num: 9
Candidate Starts for Nabi_63:
(2, 45021), (4, 44847), (6, 44793), (8, 44715), (Start: 9 @44640 has 18 MA's), (10, 44628), (12, 44580), (13, 44565), (21, 44445), (22, 44415),

Gene: Nanodon_62 Start: 43761, Stop: 43456, Start Num: 9
Candidate Starts for Nanodon_62:
(Start: 9 @43761 has 18 MA's), (10, 43749), (12, 43701), (13, 43686), (15, 43641), (17, 43602), (20, 43539),

Gene: Rana_63 Start: 44529, Stop: 44254, Start Num: 9
Candidate Starts for Rana_63:
(2, 44874), (4, 44736), (5, 44730), (6, 44682), (7, 44631), (8, 44604), (Start: 9 @44529 has 18 MA's), (10, 44517), (11, 44487), (12, 44469), (13, 44454), (14, 44430), (21, 44334), (22, 44304),

Gene: RedBear_62 Start: 45367, Stop: 45062, Start Num: 9
Candidate Starts for RedBear_62:
(Start: 9 @45367 has 18 MA's), (10, 45355), (12, 45307), (19, 45169), (20, 45145),

Gene: South40_61 Start: 45367, Stop: 45062, Start Num: 9
Candidate Starts for South40_61:
(Start: 9 @45367 has 18 MA's), (10, 45355), (12, 45307), (19, 45169), (20, 45145),

Gene: Sujidade_63 Start: 45011, Stop: 44706, Start Num: 9
Candidate Starts for Sujidade_63:
(2, 45380), (4, 45218), (6, 45164), (7, 45113), (8, 45086), (Start: 9 @45011 has 18 MA's), (10, 44999), (13, 44936), (16, 44867), (20, 44789),

Gene: Toma_63 Start: 44950, Stop: 44645, Start Num: 9
Candidate Starts for Toma_63:
(1, 45331), (2, 45319), (3, 45238), (4, 45157), (6, 45103), (8, 45025), (Start: 9 @44950 has 18 MA's), (10, 44938), (13, 44875), (16, 44806), (18, 44767), (20, 44728),

Gene: Zemlya_63 Start: 44654, Stop: 44379, Start Num: 9
Candidate Starts for Zemlya_63:
(2, 44999), (4, 44861), (6, 44807), (8, 44729), (Start: 9 @44654 has 18 MA's), (10, 44642), (11, 44612), (12, 44594), (13, 44579), (21, 44459), (22, 44429),