Pham 348032


7
11
12
20
32
33
35
1: Arcadia_2 + 2
1
2
6
8
17
27
29
30
36
42
2: Mashley_19 + 2
5
6
14
17
18
22
24
25
29
41
3: Fransoyer_23 + 2
1
2
6
8
17
27
29
30
42
4: Mila11_23
1
2
6
8
17
27
29
30
42
5: Statler_22
1
2
6
8
17
27
29
30
36
42
6: BaconCheese_23
34
6
8
14
17
27
29
30
36
42
7: Tissue_21
6
16
23
27
29
38
39
40
8: Leaf_57 + 1
13
29
41
9: Dodo_181 + 2
13
28
37
10: Erasmago_181
9
13
26
28
41
11: Big4_175
6
10
21
27
30
12: Pumpernickel_177
15
19
26
27
31
32
34
41
13: Sunfish_30

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 348032 Report

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

Pham number 348032 has 22 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Arcadia_2, Nason_2, Elsa_2
• Track 2 : Mashley_19, MorillMayhem_21, Hyperion_20
• Track 3 : Fransoyer_23, RubyRalph_23, SadLad_24
• Track 4 : Mila11_23
• Track 5 : Statler_22
• Track 6 : BaconCheese_23
• Track 7 : Tissue_21
• Track 8 : Leaf_57, Dewdrop_57
• Track 9 : Dodo_181, PauloDiaboli_185, A3Wally_186
• Track 10 : Erasmago_181
• Track 11 : Big4_175
• Track 12 : Pumpernickel_177
• Track 13 : Sunfish_30

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

The start number called the most often in the published annotations is 6, it was called in 7 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BaconCheese_23, Dewdrop_57, Leaf_57, Mila11_23, Pumpernickel_177, Statler_22, Tissue_21,

Genes that have the "Most Annotated" start but do not call it:
• Fransoyer_23, Hyperion_20, Mashley_19, MorillMayhem_21, RubyRalph_23, SadLad_24,

Genes that do not have the "Most Annotated" start:
• A3Wally_186, Arcadia_2, Big4_175, Dodo_181, Elsa_2, Erasmago_181, Nason_2, PauloDiaboli_185, Sunfish_30,

Summary by start number:

Start 1:

• Found in 6 of 22 (27.3%) of genes in pham
• Manual Annotations of this start: 3 of 21
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Hyperion_20 (EG), Mashley_19 (EG), MorillMayhem_21 (EG),

Start 5:
• Found in 3 of 22 (13.6%) of genes in pham
• Manual Annotations of this start: 3 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fransoyer_23 (EG), RubyRalph_23 (EG), SadLad_24 (EG),

Start 6:
• Found in 13 of 22 (59.1%) of genes in pham
• Manual Annotations of this start: 7 of 21
• Called 53.8% of time when present
• Phage (with cluster) where this start called: BaconCheese_23 (EG), Dewdrop_57 (GC), Leaf_57 (GC), Mila11_23 (EG), Pumpernickel_177 (GD4), Statler_22 (EG), Tissue_21 (EG),

Start 12:
• Found in 3 of 22 (13.6%) of genes in pham
• Manual Annotations of this start: 3 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arcadia_2 (AM), Elsa_2 (AM), Nason_2 (AM),

Start 13:
• Found in 5 of 22 (22.7%) of genes in pham
• Manual Annotations of this start: 4 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_186 (GD1), Big4_175 (GD2), Dodo_181 (GD1), Erasmago_181 (GD2), PauloDiaboli_185 (GD1),

Start 15:
• Found in 1 of 22 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sunfish_30 (singleton),

Summary by clusters:

There are 7 clusters represented in this pham: GD1, GD2, GD4, EG, AM, singleton, GC,

Info for manual annotations of cluster AM:
•Start number 12 was manually annotated 3 times for cluster AM.

Info for manual annotations of cluster EG:
•Start number 1 was manually annotated 3 times for cluster EG.
•Start number 5 was manually annotated 3 times for cluster EG.
•Start number 6 was manually annotated 4 times for cluster EG.

Info for manual annotations of cluster GC:
•Start number 6 was manually annotated 2 times for cluster GC.

Info for manual annotations of cluster GD1:
•Start number 13 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 13 was manually annotated 1 time for cluster GD2.

Info for manual annotations of cluster GD4:
•Start number 6 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_186 Start: 101532, Stop: 101870, Start Num: 13
Candidate Starts for A3Wally_186:
(Start: 13 @101532 has 4 MA's), (29, 101691), (41, 101817),

Gene: Arcadia_2 Start: 525, Stop: 869, Start Num: 12
Candidate Starts for Arcadia_2:
(7, 486), (11, 522), (Start: 12 @525 has 3 MA's), (20, 591), (32, 702), (33, 714), (35, 750),

Gene: BaconCheese_23 Start: 9375, Stop: 9755, Start Num: 6
Candidate Starts for BaconCheese_23:
(Start: 1 @9297 has 3 MA's), (2, 9330), (Start: 6 @9375 has 7 MA's), (8, 9390), (17, 9441), (27, 9555), (29, 9579), (30, 9585), (36, 9642), (42, 9735),

Gene: Big4_175 Start: 98404, Stop: 98742, Start Num: 13
Candidate Starts for Big4_175:
(9, 98389), (Start: 13 @98404 has 4 MA's), (26, 98530), (28, 98554), (41, 98689),

Gene: Dewdrop_57 Start: 24658, Stop: 25071, Start Num: 6
Candidate Starts for Dewdrop_57:
(Start: 6 @24658 has 7 MA's), (16, 24715), (23, 24799), (27, 24850), (29, 24877), (38, 24967), (39, 24979), (40, 24991),

Gene: Dodo_181 Start: 101144, Stop: 101482, Start Num: 13
Candidate Starts for Dodo_181:
(Start: 13 @101144 has 4 MA's), (29, 101303), (41, 101429),

Gene: Elsa_2 Start: 525, Stop: 869, Start Num: 12
Candidate Starts for Elsa_2:
(7, 486), (11, 522), (Start: 12 @525 has 3 MA's), (20, 591), (32, 702), (33, 714), (35, 750),

Gene: Erasmago_181 Start: 98728, Stop: 99066, Start Num: 13
Candidate Starts for Erasmago_181:
(Start: 13 @98728 has 4 MA's), (28, 98878), (37, 98959),

Gene: Fransoyer_23 Start: 8495, Stop: 8893, Start Num: 5
Candidate Starts for Fransoyer_23:

(Start: 5 @8495 has 3 MA's), (Start: 6 @8510 has 7 MA's), (14, 8561), (17, 8576), (18, 8606), (22, 8627), (24, 8669), (25, 8675), (29, 8717), (41, 8840),

Gene: Hyperion_20 Start: 8194, Stop: 8652, Start Num: 1
Candidate Starts for Hyperion_20:
(Start: 1 @8194 has 3 MA's), (2, 8227), (Start: 6 @8272 has 7 MA's), (8, 8287), (17, 8338), (27, 8452), (29, 8476), (30, 8482), (36, 8539), (42, 8632),

Gene: Leaf_57 Start: 24658, Stop: 25071, Start Num: 6
Candidate Starts for Leaf_57:
(Start: 6 @24658 has 7 MA's), (16, 24715), (23, 24799), (27, 24850), (29, 24877), (38, 24967), (39, 24979), (40, 24991),

Gene: Mashley_19 Start: 8005, Stop: 8463, Start Num: 1
Candidate Starts for Mashley_19:
(Start: 1 @8005 has 3 MA's), (2, 8038), (Start: 6 @8083 has 7 MA's), (8, 8098), (17, 8149), (27, 8263), (29, 8287), (30, 8293), (36, 8350), (42, 8443),

Gene: Mila11_23 Start: 9158, Stop: 9538, Start Num: 6
Candidate Starts for Mila11_23:
(Start: 1 @9080 has 3 MA's), (2, 9113), (Start: 6 @9158 has 7 MA's), (8, 9173), (17, 9224), (27, 9338), (29, 9362), (30, 9368), (42, 9518),

Gene: MorillMayhem_21 Start: 8013, Stop: 8471, Start Num: 1
Candidate Starts for MorillMayhem_21:
(Start: 1 @8013 has 3 MA's), (2, 8046), (Start: 6 @8091 has 7 MA's), (8, 8106), (17, 8157), (27, 8271), (29, 8295), (30, 8301), (36, 8358), (42, 8451),

Gene: Nason_2 Start: 525, Stop: 869, Start Num: 12
Candidate Starts for Nason_2:
(7, 486), (11, 522), (Start: 12 @525 has 3 MA's), (20, 591), (32, 702), (33, 714), (35, 750),

Gene: PauloDiaboli_185 Start: 99579, Stop: 99917, Start Num: 13
Candidate Starts for PauloDiaboli_185:
(Start: 13 @99579 has 4 MA's), (29, 99738), (41, 99864),

Gene: Pumpernickel_177 Start: 101023, Stop: 101388, Start Num: 6
Candidate Starts for Pumpernickel_177:
(Start: 6 @101023 has 7 MA's), (10, 101053), (21, 101113), (27, 101179), (30, 101212),

Gene: RubyRalph_23 Start: 8429, Stop: 8827, Start Num: 5
Candidate Starts for RubyRalph_23:
(Start: 5 @8429 has 3 MA's), (Start: 6 @8444 has 7 MA's), (14, 8495), (17, 8510), (18, 8540), (22, 8561), (24, 8603), (25, 8609), (29, 8651), (41, 8774),

Gene: SadLad_24 Start: 8886, Stop: 9284, Start Num: 5
Candidate Starts for SadLad_24:
(Start: 5 @8886 has 3 MA's), (Start: 6 @8901 has 7 MA's), (14, 8952), (17, 8967), (18, 8997), (22, 9018), (24, 9060), (25, 9066), (29, 9108), (41, 9231),

Gene: Statler_22 Start: 8569, Stop: 8949, Start Num: 6
Candidate Starts for Statler_22:

(Start: 1 @8491 has 3 MA's), (2, 8524), (Start: 6 @8569 has 7 MA's), (8, 8584), (17, 8635), (27, 8749), (29, 8773), (30, 8779), (42, 8929),

Gene: Sunfish_30 Start: 14435, Stop: 14770, Start Num: 15
Candidate Starts for Sunfish_30:
(Start: 15 @14435 has 1 MA's), (19, 14483), (26, 14549), (27, 14555), (31, 14594), (32, 14600), (34, 14612), (41, 14717),

Gene: Tissue_21 Start: 8398, Stop: 8778, Start Num: 6
Candidate Starts for Tissue_21:
(3, 8371), (4, 8374), (Start: 6 @8398 has 7 MA's), (8, 8413), (14, 8449), (17, 8464), (27, 8578), (29, 8602), (30, 8608), (36, 8665), (42, 8758),