Pham 159537

5
7
8
9
16
21
25
27
30
1: PatrickStar_108 + 2
5
7
8
9
16
21
27
30
2: Gibbles_110
1
2
3
5
7
8
9
11
15
24
27
3: RobinSparkles_116
6
8
10
14
21
24
29
31
4: GMA3_92
5
8
12
13
17
18
20
21
23
27
5: Azrael100_155 + 4
4
5
7
8
19
22
23
26
28
6: DocB7_091

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 159537 Report

This analysis was run 05/04/24 on database version 560.

Pham number 159537 has 12 members, 2 are drafts.

Phages represented in each track:
• Track 1 : PatrickStar_108, Kampe_108, Orchid_107
• Track 2 : Gibbles_110
• Track 3 : RobinSparkles_116
• Track 4 : GMA3_92
• Track 5 : Azrael100_155, EniyanLRS_156, MaryV_149, Cosmo_164, Wildcat_163
• Track 6 : DocB7_091

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

The start number called the most often in the published annotations is 5, it was called in 10 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Azrael100_155, Cosmo_164, DocB7_091, EniyanLRS_156, Gibbles_110, Kampe_108, MaryV_149, Orchid_107, PatrickStar_108, RobinSparkles_116, Wildcat_163,

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

Genes that do not have the "Most Annotated" start:
• GMA3_92,

Summary by start number:

Start 5:
• Found in 11 of 12 (91.7%) of genes in pham
• Manual Annotations of this start: 10 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azrael100_155 (V), Cosmo_164 (V), DocB7_091 (singleton), EniyanLRS_156 (V), Gibbles_110 (CX), Kampe_108 (CX), MaryV_149 (V), Orchid_107 (CX), PatrickStar_108 (CX), RobinSparkles_116 (CX), Wildcat_163 (V),

Start 6:
• Found in 1 of 12 (8.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA3_92 (DF2),

Summary by clusters:

There are 4 clusters represented in this pham: DF2, singleton, CX, V,

Info for manual annotations of cluster CX:
•Start number 5 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster V:
•Start number 5 was manually annotated 5 times for cluster V.

Gene Information:

Gene: Azrael100_155 Start: 73478, Stop: 73113, Start Num: 5
Candidate Starts for Azrael100_155:
(Start: 5 @73478 has 10 MA's), (8, 73454), (12, 73406), (13, 73382), (17, 73355), (18, 73349), (20, 73316), (21, 73304), (23, 73241), (27, 73184),

Gene: Cosmo_164 Start: 73642, Stop: 73277, Start Num: 5
Candidate Starts for Cosmo_164:
(Start: 5 @73642 has 10 MA's), (8, 73618), (12, 73570), (13, 73546), (17, 73519), (18, 73513), (20, 73480), (21, 73468), (23, 73405), (27, 73348),

Gene: DocB7_091 Start: 64971, Stop: 64615, Start Num: 5
Candidate Starts for DocB7_091:
(4, 64983), (Start: 5 @64971 has 10 MA's), (7, 64962), (8, 64947), (19, 64839), (22, 64788), (23, 64740), (26, 64698), (28, 64677),

Gene: EniyanLRS_156 Start: 73969, Stop: 73604, Start Num: 5
Candidate Starts for EniyanLRS_156:
(Start: 5 @73969 has 10 MA's), (8, 73945), (12, 73897), (13, 73873), (17, 73846), (18, 73840), (20, 73807), (21, 73795), (23, 73732), (27, 73675),

Gene: GMA3_92 Start: 68671, Stop: 68228, Start Num: 6
Candidate Starts for GMA3_92:
(6, 68671), (8, 68647), (10, 68629), (14, 68566), (21, 68506), (24, 68431), (29, 68371), (31, 68284),

Gene: Gibbles_110 Start: 75976, Stop: 75608, Start Num: 5
Candidate Starts for Gibbles_110:
(Start: 5 @75976 has 10 MA's), (7, 75967), (8, 75952), (9, 75937), (16, 75877), (21, 75823), (27, 75700), (30, 75658),

Gene: Kampe_108 Start: 75398, Stop: 75030, Start Num: 5
Candidate Starts for Kampe_108:

(Start: 5 @75398 has 10 MA's), (7, 75389), (8, 75374), (9, 75359), (16, 75299), (21, 75245), (25, 75143), (27, 75122), (30, 75080),

Gene: MaryV_149 Start: 71819, Stop: 71454, Start Num: 5
Candidate Starts for MaryV_149:
(Start: 5 @71819 has 10 MA's), (8, 71795), (12, 71747), (13, 71723), (17, 71696), (18, 71690), (20, 71657), (21, 71645), (23, 71582), (27, 71525),

Gene: Orchid_107 Start: 75399, Stop: 75031, Start Num: 5
Candidate Starts for Orchid_107:
(Start: 5 @75399 has 10 MA's), (7, 75390), (8, 75375), (9, 75360), (16, 75300), (21, 75246), (25, 75144), (27, 75123), (30, 75081),

Gene: PatrickStar_108 Start: 75478, Stop: 75110, Start Num: 5
Candidate Starts for PatrickStar_108:
(Start: 5 @75478 has 10 MA's), (7, 75469), (8, 75454), (9, 75439), (16, 75379), (21, 75325), (25, 75223), (27, 75202), (30, 75160),

Gene: RobinSparkles_116 Start: 76337, Stop: 75972, Start Num: 5
Candidate Starts for RobinSparkles_116:
(1, 76544), (2, 76490), (3, 76421), (Start: 5 @76337 has 10 MA's), (7, 76328), (8, 76313), (9, 76298), (11, 76286), (15, 76244), (24, 76112), (27, 76064),

Gene: Wildcat_163 Start: 73712, Stop: 73347, Start Num: 5
Candidate Starts for Wildcat_163:
(Start: 5 @73712 has 10 MA's), (8, 73688), (12, 73640), (13, 73616), (17, 73589), (18, 73583), (20, 73550), (21, 73538), (23, 73475), (27, 73418),