Pham 87465

2
7
12
13
14
15
16
18
19
20
22
1: Rollins_24 + 5
2
5
12
13
14
15
16
18
19
20
22
2: Skylord_24
3
5
8
12
13
14
16
18
20
22
3: Eden_24
4
6
8
10
12
14
16
20
21
22
23
24
4: Franklin22_25
4
6
8
11
12
14
16
20
21
22
23
24
5: Gack_24
1
2
5
12
13
14
15
16
17
18
19
20
22
6: Clayda5_24

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 87465 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87465 has 11 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Rollins_24, Brahms_24, Coltrane_24, Vitas_24, Bernstein_24, Armstrong_24
• Track 2 : Skylord_24
• Track 3 : Eden_24
• Track 4 : Franklin22_25
• Track 5 : Gack_24
• Track 6 : Clayda5_24

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

The start number called the most often in the published annotations is 2, it was called in 8 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Armstrong_24, Bernstein_24, Brahms_24, Clayda5_24, Coltrane_24, Rollins_24, Skylord_24, Vitas_24,

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

Genes that do not have the "Most Annotated" start:
• Eden_24, Franklin22_25, Gack_24,

Summary by start number:

Start 2:
• Found in 8 of 11 (72.7%) of genes in pham
• Manual Annotations of this start: 8 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Armstrong_24 (EB), Bernstein_24 (EB), Brahms_24 (EB), Clayda5_24 (EB), Coltrane_24 (EB), Rollins_24 (EB), Skylord_24 (EB), Vitas_24 (EB),

Start 3:

• Found in 1 of 11 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Eden_24 (EB),

Start 4:
• Found in 2 of 11 (18.2%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Franklin22_25 (EB), Gack_24 (EB),

Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:
•Start number 2 was manually annotated 8 times for cluster EB.
•Start number 3 was manually annotated 1 time for cluster EB.
•Start number 4 was manually annotated 1 time for cluster EB.

Gene Information:

Gene: Armstrong_24 Start: 18309, Stop: 19202, Start Num: 2
Candidate Starts for Armstrong_24:
(Start: 2 @18309 has 8 MA's), (7, 18522), (12, 18561), (13, 18600), (14, 18633), (15, 18654), (16, 18699), (18, 19008), (19, 19020), (20, 19029), (22, 19083),

Gene: Bernstein_24 Start: 18364, Stop: 19257, Start Num: 2
Candidate Starts for Bernstein_24:
(Start: 2 @18364 has 8 MA's), (7, 18577), (12, 18616), (13, 18655), (14, 18688), (15, 18709), (16, 18754), (18, 19063), (19, 19075), (20, 19084), (22, 19138),

Gene: Brahms_24 Start: 18311, Stop: 19204, Start Num: 2
Candidate Starts for Brahms_24:
(Start: 2 @18311 has 8 MA's), (7, 18524), (12, 18563), (13, 18602), (14, 18635), (15, 18656), (16, 18701), (18, 19010), (19, 19022), (20, 19031), (22, 19085),

Gene: Clayda5_24 Start: 18313, Stop: 19191, Start Num: 2
Candidate Starts for Clayda5_24:
(1, 18106), (Start: 2 @18313 has 8 MA's), (5, 18364), (12, 18550), (13, 18589), (14, 18622), (15, 18643), (16, 18688), (17, 18742), (18, 18997), (19, 19009), (20, 19018), (22, 19072),

Gene: Coltrane_24 Start: 18311, Stop: 19204, Start Num: 2
Candidate Starts for Coltrane_24:
(Start: 2 @18311 has 8 MA's), (7, 18524), (12, 18563), (13, 18602), (14, 18635), (15, 18656), (16, 18701), (18, 19010), (19, 19022), (20, 19031), (22, 19085),

Gene: Eden_24 Start: 18493, Stop: 19404, Start Num: 3
Candidate Starts for Eden_24:
(Start: 3 @18493 has 1 MA's), (5, 18544), (8, 18715), (12, 18736), (13, 18769), (14, 18802), (16, 18868), (18, 19210), (20, 19231), (22, 19285),

Gene: Franklin22_25 Start: 18676, Stop: 19551, Start Num: 4
Candidate Starts for Franklin22_25:
(Start: 4 @18676 has 1 MA's), (6, 18835), (8, 18871), (10, 18877), (12, 18892), (14, 18952), (16, 19018), (20, 19387), (21, 19423), (22, 19441), (23, 19498), (24, 19534),

Gene: Gack_24 Start: 18563, Stop: 19438, Start Num: 4
Candidate Starts for Gack_24:
(Start: 4 @18563 has 1 MA's), (6, 18722), (8, 18758), (9, 18761), (11, 18767), (12, 18779), (14, 18839), (16, 18905), (20, 19274), (21, 19310), (22, 19328), (23, 19385), (24, 19421),

Gene: Rollins_24 Start: 18364, Stop: 19257, Start Num: 2
Candidate Starts for Rollins_24:
(Start: 2 @18364 has 8 MA's), (7, 18577), (12, 18616), (13, 18655), (14, 18688), (15, 18709), (16, 18754), (18, 19063), (19, 19075), (20, 19084), (22, 19138),

Gene: Skylord_24 Start: 18310, Stop: 19188, Start Num: 2
Candidate Starts for Skylord_24:
(Start: 2 @18310 has 8 MA's), (5, 18361), (12, 18547), (13, 18586), (14, 18619), (15, 18640), (16, 18685), (18, 18994), (19, 19006), (20, 19015), (22, 19069),

Gene: Vitas_24 Start: 18304, Stop: 19197, Start Num: 2
Candidate Starts for Vitas_24:
(Start: 2 @18304 has 8 MA's), (7, 18517), (12, 18556), (13, 18595), (14, 18628), (15, 18649), (16, 18694), (18, 19003), (19, 19015), (20, 19024), (22, 19078),