



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 3688 Report

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

Pham number 3688 has 22 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Kinbote_70, Ubuntu_72, Forge_66, Evanesce_71, Webster2_72, Amymech_72, Luna22_66, Hail_66, HH92_71
- Track 2 : Hadrien_70, Wishmaker_66, LilHazelNut_72, Dewey_66, Gancho_71, Ein37_72, OBUpride_71, Gravaillia_67, Luke_70, DeepSoil15_72, Amochick_73, Daegal_75, Giles_66

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

The start number called the most often in the published annotations is 3, it was called in 13 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amochick_73, Daegal_75, DeepSoil15_72, Dewey_66, Ein37_72, Gancho_71, Giles_66, Gravaillia_67, Hadrien_70, LilHazelNut_72, Luke_70, OBUpride_71, Wishmaker_66,

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

- Amymech_72, Evanesce_71, Forge_66, HH92_71, Hail_66, Kinbote_70, Luna22_66, Ubuntu_72, Webster2_72,

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

-

Summary by start number:

Start 3:

- Found in 22 of 22 (100.0%) of genes in pham
- Manual Annotations of this start: 13 of 22
- Called 59.1% of time when present
- Phage (with cluster) where this start called: Amochick_73 (Q), Daegal_75 (Q), DeepSoil15_72 (Q), Dewey_66 (Q), Ein37_72 (Q), Gancho_71 (Q), Giles_66 (Q), Gravaillia_67 (Q), Hadrien_70 (Q), LilHazelNut_72 (Q), Luke_70 (Q), OBUpride_71 (Q), Wishmaker_66 (Q),

Start 4:

- Found in 22 of 22 (100.0%) of genes in pham
- Manual Annotations of this start: 9 of 22
- Called 40.9% of time when present
- Phage (with cluster) where this start called: Amymech_72 (Q), Evanesce_71 (Q), Forge_66 (Q), HH92_71 (Q), Hail_66 (Q), Kinbote_70 (Q), Luna22_66 (Q), Ubuntu_72 (Q), Webster2_72 (Q),

Summary by clusters:

There is one cluster represented in this pham: Q

Info for manual annotations of cluster Q:

- Start number 3 was manually annotated 13 times for cluster Q.
- Start number 4 was manually annotated 9 times for cluster Q.

Gene Information:

Gene: Amochick_73 Start: 48194, Stop: 48649, Start Num: 3

Candidate Starts for Amochick_73:

(1, 48056), (2, 48080), (Start: 3 @48194 has 13 MA's), (Start: 4 @48197 has 9 MA's), (5, 48416), (6, 48419), (7, 48431), (8, 48494), (9, 48554), (10, 48584), (11, 48641),

Gene: Amymech_72 Start: 47650, Stop: 48102, Start Num: 4

Candidate Starts for Amymech_72:

(1, 47509), (2, 47533), (Start: 3 @47647 has 13 MA's), (Start: 4 @47650 has 9 MA's), (5, 47869), (6, 47872), (7, 47884), (8, 47947), (9, 48007), (10, 48037), (11, 48094),

Gene: Daegal_75 Start: 48753, Stop: 49208, Start Num: 3

Candidate Starts for Daegal_75:

(1, 48615), (2, 48639), (Start: 3 @48753 has 13 MA's), (Start: 4 @48756 has 9 MA's), (5, 48975), (6, 48978), (7, 48990), (8, 49053), (9, 49113), (10, 49143), (11, 49200),

Gene: DeepSoil15_72 Start: 47647, Stop: 48102, Start Num: 3

Candidate Starts for DeepSoil15_72:

(1, 47509), (2, 47533), (Start: 3 @47647 has 13 MA's), (Start: 4 @47650 has 9 MA's), (5, 47869), (6, 47872), (7, 47884), (8, 47947), (9, 48007), (10, 48037), (11, 48094),

Gene: Dewey_66 Start: 47647, Stop: 48102, Start Num: 3

Candidate Starts for Dewey_66:

(1, 47509), (2, 47533), (Start: 3 @47647 has 13 MA's), (Start: 4 @47650 has 9 MA's), (5, 47869), (6, 47872), (7, 47884), (8, 47947), (9, 48007), (10, 48037), (11, 48094),

Gene: Ein37_72 Start: 47647, Stop: 48102, Start Num: 3

Candidate Starts for Ein37_72:

(1, 47509), (2, 47533), (Start: 3 @47647 has 13 MA's), (Start: 4 @47650 has 9 MA's), (5, 47869), (6, 47872), (7, 47884), (8, 47947), (9, 48007), (10, 48037), (11, 48094),

Gene: Evanesce_71 Start: 47650, Stop: 48102, Start Num: 4

Candidate Starts for Evanesce_71:

(1, 47509), (2, 47533), (Start: 3 @47647 has 13 MA's), (Start: 4 @47650 has 9 MA's), (5, 47869), (6, 47872), (7, 47884), (8, 47947), (9, 48007), (10, 48037), (11, 48094),

Gene: Forge_66 Start: 47650, Stop: 48102, Start Num: 4

Candidate Starts for Forge_66:

(1, 47509), (2, 47533), (Start: 3 @47647 has 13 MA's), (Start: 4 @47650 has 9 MA's), (5, 47869), (6, 47872), (7, 47884), (8, 47947), (9, 48007), (10, 48037), (11, 48094),

Gene: Gancho_71 Start: 47422, Stop: 47877, Start Num: 3

Candidate Starts for Gancho_71:

(1, 47284), (2, 47308), (Start: 3 @47422 has 13 MA's), (Start: 4 @47425 has 9 MA's), (5, 47644), (6, 47647), (7, 47659), (8, 47722), (9, 47782), (10, 47812), (11, 47869),

Gene: Giles_66 Start: 47647, Stop: 48102, Start Num: 3

Candidate Starts for Giles_66:

(1, 47509), (2, 47533), (Start: 3 @47647 has 13 MA's), (Start: 4 @47650 has 9 MA's), (5, 47869), (6, 47872), (7, 47884), (8, 47947), (9, 48007), (10, 48037), (11, 48094),

Gene: Gravaillia_67 Start: 47703, Stop: 48158, Start Num: 3

Candidate Starts for Gravaillia_67:

(1, 47565), (2, 47589), (Start: 3 @47703 has 13 MA's), (Start: 4 @47706 has 9 MA's), (5, 47925), (6, 47928), (7, 47940), (8, 48003), (9, 48063), (10, 48093), (11, 48150),

Gene: HH92_71 Start: 47650, Stop: 48102, Start Num: 4

Candidate Starts for HH92_71:

(1, 47509), (2, 47533), (Start: 3 @47647 has 13 MA's), (Start: 4 @47650 has 9 MA's), (5, 47869), (6, 47872), (7, 47884), (8, 47947), (9, 48007), (10, 48037), (11, 48094),

Gene: Hadrien_70 Start: 47647, Stop: 48102, Start Num: 3

Candidate Starts for Hadrien_70:

(1, 47509), (2, 47533), (Start: 3 @47647 has 13 MA's), (Start: 4 @47650 has 9 MA's), (5, 47869), (6, 47872), (7, 47884), (8, 47947), (9, 48007), (10, 48037), (11, 48094),

Gene: Hail_66 Start: 47650, Stop: 48102, Start Num: 4

Candidate Starts for Hail_66:

(1, 47509), (2, 47533), (Start: 3 @47647 has 13 MA's), (Start: 4 @47650 has 9 MA's), (5, 47869), (6, 47872), (7, 47884), (8, 47947), (9, 48007), (10, 48037), (11, 48094),

Gene: Kinbote_70 Start: 47650, Stop: 48102, Start Num: 4

Candidate Starts for Kinbote_70:

(1, 47509), (2, 47533), (Start: 3 @47647 has 13 MA's), (Start: 4 @47650 has 9 MA's), (5, 47869), (6, 47872), (7, 47884), (8, 47947), (9, 48007), (10, 48037), (11, 48094),

Gene: LilHazelnut_72 Start: 47647, Stop: 48102, Start Num: 3

Candidate Starts for LilHazelnut_72:

(1, 47509), (2, 47533), (Start: 3 @47647 has 13 MA's), (Start: 4 @47650 has 9 MA's), (5, 47869), (6, 47872), (7, 47884), (8, 47947), (9, 48007), (10, 48037), (11, 48094),

Gene: Luke_70 Start: 47602, Stop: 48057, Start Num: 3

Candidate Starts for Luke_70:

(1, 47464), (2, 47488), (Start: 3 @47602 has 13 MA's), (Start: 4 @47605 has 9 MA's), (5, 47824), (6, 47827), (7, 47839), (8, 47902), (9, 47962), (10, 47992), (11, 48049),

Gene: Luna22_66 Start: 47634, Stop: 48086, Start Num: 4

Candidate Starts for Luna22_66:

(1, 47493), (2, 47517), (Start: 3 @47631 has 13 MA's), (Start: 4 @47634 has 9 MA's), (5, 47853), (6, 47856), (7, 47868), (8, 47931), (9, 47991), (10, 48021), (11, 48078),

Gene: OBUpride_71 Start: 47691, Stop: 48146, Start Num: 3

Candidate Starts for OBUpride_71:

(1, 47553), (2, 47577), (Start: 3 @47691 has 13 MA's), (Start: 4 @47694 has 9 MA's), (5, 47913), (6, 47916), (7, 47928), (8, 47991), (9, 48051), (10, 48081), (11, 48138),

Gene: Ubuntu_72 Start: 47650, Stop: 48102, Start Num: 4

Candidate Starts for Ubuntu_72:

(1, 47509), (2, 47533), (Start: 3 @47647 has 13 MA's), (Start: 4 @47650 has 9 MA's), (5, 47869), (6, 47872), (7, 47884), (8, 47947), (9, 48007), (10, 48037), (11, 48094),

Gene: Webster2_72 Start: 47650, Stop: 48102, Start Num: 4

Candidate Starts for Webster2_72:

(1, 47509), (2, 47533), (Start: 3 @47647 has 13 MA's), (Start: 4 @47650 has 9 MA's), (5, 47869), (6, 47872), (7, 47884), (8, 47947), (9, 48007), (10, 48037), (11, 48094),

Gene: Wishmaker_66 Start: 47647, Stop: 48102, Start Num: 3

Candidate Starts for Wishmaker_66:

(1, 47509), (2, 47533), (Start: 3 @47647 has 13 MA's), (Start: 4 @47650 has 9 MA's), (5, 47869), (6, 47872), (7, 47884), (8, 47947), (9, 48007), (10, 48037), (11, 48094),