Pham 171682

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 171682 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171682 has 30 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Bunker_39
• Track 2 : BackstagePass_50
• Track 3 : MagicMan_41, Eyes_39
• Track 4 : Bowser_41
• Track 5 : ZAYM_43
• Track 6 : Schnabeltier_41
• Track 7 : MoRicky_22, Smilerella_21
• Track 8 : Brujita_35
• Track 9 : Xula_30, Island3_35, QueenHazel_31
• Track 10 : Babsiella_35
• Track 11 : Phayonce_34
• Track 12 : Ubuntu_50, Kinbote_50, LilHazelnut_50, Evanesce_49, Hadrien_50, Forge_48, Webster2_50, Ein37_50, Amymech_50, DeepSoil15_50, Amochick_50, Gancho_49, Daegal_52, Luke_50
• Track 13 : IdentityCrisis_37

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 14 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amochick_50, Amymech_50, Daegal_52, DeepSoil15_50, Ein37_50, Evanesce_49, Forge_48, Gancho_49, Hadrien_50, Kinbote_50, LilHazelnut_50, Luke_50, MoRicky_22, Smilerella_21, Ubuntu_50, Webster2_50,

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

Genes that do not have the "Most Annotated" start:
• Babsiella_35, BackstagePass_50, Bowser_41, Brujita_35, Bunker_39, Eyes_39, IdentityCrisis_37, Island3_35, MagicMan_41, Phayonce_34, QueenHazel_31, Schnabeltier_41, Xula_30, ZAYM_43,

Summary by start number:

Start 5:
• Found in 1 of 30 (3.3%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: IdentityCrisis_37 (singleton),

Start 6:
• Found in 2 of 30 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bunker_39 (DB), ZAYM_43 (DB),

Start 9:
• Found in 16 of 30 (53.3%) of genes in pham
• Manual Annotations of this start: 14 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amochick_50 (Q), Amymech_50 (Q), Daegal_52 (Q), DeepSoil15_50 (Q), Ein37_50 (Q), Evanesce_49 (Q), Forge_48 (Q), Gancho_49 (Q), Hadrien_50 (Q), Kinbote_50 (Q), LilHazelnut_50 (Q), Luke_50 (Q), MoRicky_22 (GH), Smilerella_21 (GH), Ubuntu_50 (Q), Webster2_50 (Q),

Start 11:
• Found in 1 of 30 (3.3%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phayonce_34 (P5),

Start 12:
• Found in 5 of 30 (16.7%) of genes in pham
• Manual Annotations of this start: 4 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BackstagePass_50 (DB), Bowser_41 (DB), Eyes_39 (DB), MagicMan_41 (DB), Schnabeltier_41 (DB),

Start 13:
• Found in 5 of 30 (16.7%) of genes in pham
• Manual Annotations of this start: 4 of 26
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Babsiella_35 (I1), Island3_35 (I1), QueenHazel_31 (I1), Xula_30 (I1),

Start 14:
• Found in 5 of 30 (16.7%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Brujita_35 (I1),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, P5, I1, DB, Q, GH,

Info for manual annotations of cluster DB:
•Start number 6 was manually annotated 1 time for cluster DB.
•Start number 12 was manually annotated 4 times for cluster DB.

Info for manual annotations of cluster I1:
•Start number 13 was manually annotated 4 times for cluster I1.
•Start number 14 was manually annotated 1 time for cluster I1.

Info for manual annotations of cluster P5:
•Start number 11 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster Q:
•Start number 9 was manually annotated 14 times for cluster Q.

Gene Information:
Gene: Amochick_50 Start: 36955, Stop: 37152, Start Num: 9
Candidate Starts for Amochick_50:
(Start: 9 @36955 has 14 MA's), (16, 37018),

Gene: Amymech_50 Start: 36949, Stop: 37146, Start Num: 9
Candidate Starts for Amymech_50:
(Start: 9 @36949 has 14 MA's), (16, 37012),

Gene: Babsiella_35 Start: 28713, Stop: 28880, Start Num: 13
Candidate Starts for Babsiella_35:
(1, 28563), (2, 28629), (7, 28668), (8, 28677), (Start: 13 @28713 has 4 MA's), (Start: 14 @28725 has 1 MA's),

Gene: BackstagePass_50 Start: 34306, Stop: 34112, Start Num: 12
Candidate Starts for BackstagePass_50:
(10, 34321), (Start: 12 @34306 has 4 MA's), (15, 34267), (18, 34222),

Gene: Bowser_41 Start: 32656, Stop: 32847, Start Num: 12
Candidate Starts for Bowser_41:
(10, 32641), (Start: 12 @32656 has 4 MA's), (18, 32740), (19, 32755), (21, 32809),

Gene: Brujita_35 Start: 29623, Stop: 29778, Start Num: 14
Candidate Starts for Brujita_35:
(1, 29461), (2, 29527), (8, 29575), (Start: 13 @29611 has 4 MA's), (Start: 14 @29623 has 1 MA's),

Gene: Bunker_39 Start: 31881, Stop: 32090, Start Num: 6
Candidate Starts for Bunker_39:
(3, 31854), (Start: 6 @31881 has 1 MA's), (20, 32055),

Gene: Daegal_52 Start: 37533, Stop: 37730, Start Num: 9
Candidate Starts for Daegal_52:
(Start: 9 @37533 has 14 MA's), (16, 37596),

Gene: DeepSoil15_50 Start: 36949, Stop: 37146, Start Num: 9

Candidate Starts for DeepSoil15_50:
(Start: 9 @36949 has 14 MA's), (16, 37012),

Gene: Ein37_50 Start: 36949, Stop: 37146, Start Num: 9
Candidate Starts for Ein37_50:
(Start: 9 @36949 has 14 MA's), (16, 37012),

Gene: Evanesce_49 Start: 36949, Stop: 37146, Start Num: 9
Candidate Starts for Evanesce_49:
(Start: 9 @36949 has 14 MA's), (16, 37012),

Gene: Eyes_39 Start: 32432, Stop: 32626, Start Num: 12
Candidate Starts for Eyes_39:
(10, 32417), (Start: 12 @32432 has 4 MA's), (18, 32516),

Gene: Forge_48 Start: 36949, Stop: 37146, Start Num: 9
Candidate Starts for Forge_48:
(Start: 9 @36949 has 14 MA's), (16, 37012),

Gene: Gancho_49 Start: 36672, Stop: 36869, Start Num: 9
Candidate Starts for Gancho_49:
(Start: 9 @36672 has 14 MA's), (16, 36735),

Gene: Hadrien_50 Start: 36949, Stop: 37146, Start Num: 9
Candidate Starts for Hadrien_50:
(Start: 9 @36949 has 14 MA's), (16, 37012),

Gene: IdentityCrisis_37 Start: 27479, Stop: 27703, Start Num: 5
Candidate Starts for IdentityCrisis_37:
(Start: 5 @27479 has 1 MA's),

Gene: Island3_35 Start: 29611, Stop: 29778, Start Num: 13
Candidate Starts for Island3_35:
(1, 29461), (2, 29527), (8, 29575), (Start: 13 @29611 has 4 MA's), (Start: 14 @29623 has 1 MA's),

Gene: Kinbote_50 Start: 36949, Stop: 37146, Start Num: 9
Candidate Starts for Kinbote_50:
(Start: 9 @36949 has 14 MA's), (16, 37012),

Gene: LilHazelnut_50 Start: 36949, Stop: 37146, Start Num: 9
Candidate Starts for LilHazelnut_50:
(Start: 9 @36949 has 14 MA's), (16, 37012),

Gene: Luke_50 Start: 36904, Stop: 37101, Start Num: 9
Candidate Starts for Luke_50:
(Start: 9 @36904 has 14 MA's), (16, 36967),

Gene: MagicMan_41 Start: 32979, Stop: 33173, Start Num: 12
Candidate Starts for MagicMan_41:
(10, 32964), (Start: 12 @32979 has 4 MA's), (18, 33063),

Gene: MoRicky_22 Start: 14364, Stop: 14573, Start Num: 9
Candidate Starts for MoRicky_22:

(4, 14313), (7, 14343), (Start: 9 @14364 has 14 MA's), (17, 14439),

Gene: Phayonce_34 Start: 29517, Stop: 29735, Start Num: 11
Candidate Starts for Phayonce_34:
(7, 29487), (Start: 11 @29517 has 1 MA's), (19, 29625),

Gene: QueenHazel_31 Start: 27647, Stop: 27814, Start Num: 13
Candidate Starts for QueenHazel_31:
(1, 27497), (2, 27563), (8, 27611), (Start: 13 @27647 has 4 MA's), (Start: 14 @27659 has 1 MA's),

Gene: Schnabeltier_41 Start: 32611, Stop: 32805, Start Num: 12
Candidate Starts for Schnabeltier_41:
(Start: 12 @32611 has 4 MA's), (15, 32650), (18, 32695),

Gene: Smilerella_21 Start: 14454, Stop: 14663, Start Num: 9
Candidate Starts for Smilerella_21:
(4, 14403), (7, 14433), (Start: 9 @14454 has 14 MA's), (17, 14529),

Gene: Ubuntu_50 Start: 36949, Stop: 37146, Start Num: 9
Candidate Starts for Ubuntu_50:
(Start: 9 @36949 has 14 MA's), (16, 37012),

Gene: Webster2_50 Start: 36949, Stop: 37146, Start Num: 9
Candidate Starts for Webster2_50:
(Start: 9 @36949 has 14 MA's), (16, 37012),

Gene: Xula_30 Start: 27171, Stop: 27338, Start Num: 13
Candidate Starts for Xula_30:
(1, 27021), (2, 27087), (8, 27135), (Start: 13 @27171 has 4 MA's), (Start: 14 @27183 has 1 MA's),

Gene: ZAYM_43 Start: 32247, Stop: 32456, Start Num: 6
Candidate Starts for ZAYM_43:
(3, 32220), (Start: 6 @32247 has 1 MA's),