Pham 3552

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 3552 Report

This analysis was run 04/05/24 on database version 557.

Pham number 3552 has 22 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Helpful_76
• Track 2 : Penelope2018_73, Troll4_73, Giuseppe_75, Adjutor_71, BigMama_71, Mopey_75, Thoth_73, Delton_73, Visconti_74, KandZ_71, PBI1_69, Butterscotch_71, PLot_73
• Track 3 : Erk16_73, WaldoWhy_75, Chill_75
• Track 4 : SirHarley_75, Gumball_73, Nova_73
• Track 5 : Prager_73
• Track 6 : Hawkeye_85

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 17 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adjutor_71, BigMama_71, Butterscotch_71, Chill_75, Delton_73, Erk16_73, Giuseppe_75, Helpful_76, KandZ_71, Mopey_75, PBI1_69, PLot_73, Penelope2018_73, Thoth_73, Troll4_73, Visconti_74, WaldoWhy_75,

Genes that have the "Most Annotated" start but do not call it:
• Gumball_73, Nova_73, Prager_73, SirHarley_75,

Genes that do not have the "Most Annotated" start:
• Hawkeye_85,

Summary by start number:

Start 3:
• Found in 21 of 22 (95.5%) of genes in pham
• Manual Annotations of this start: 17 of 21
• Called 81.0% of time when present
• Phage (with cluster) where this start called: Adjutor_71 (D1), BigMama_71 (D1), Butterscotch_71 (D1), Chill_75 (D1), Delton_73 (D1), Erk16_73 (D1), Giuseppe_75 (D1), Helpful_76 (D1), KandZ_71 (D1), Mopey_75 (D1), PBI1_69 (D1), PLot_73 (D1),

Penelope2018_73 (D1), Thoth_73 (D1), Troll4_73 (D1), Visconti_74 (D1), WaldoWhy_75 (D1),

Start 4:
• Found in 22 of 22 (100.0%) of genes in pham
• Manual Annotations of this start: 4 of 21
• Called 22.7% of time when present
• Phage (with cluster) where this start called: Gumball_73 (D1), Hawkeye_85 (D2), Nova_73 (D1), Prager_73 (D1), SirHarley_75 (D1),

Summary by clusters:

There are 2 clusters represented in this pham: D2, D1,

Info for manual annotations of cluster D1:
•Start number 3 was manually annotated 17 times for cluster D1.
•Start number 4 was manually annotated 3 times for cluster D1.

Info for manual annotations of cluster D2:
•Start number 4 was manually annotated 1 time for cluster D2.

Gene Information:
Gene: Adjutor_71 Start: 56026, Stop: 56301, Start Num: 3
Candidate Starts for Adjutor_71:
(Start: 3 @56026 has 17 MA's), (Start: 4 @56041 has 4 MA's), (7, 56176), (9, 56293),

Gene: BigMama_71 Start: 56099, Stop: 56374, Start Num: 3
Candidate Starts for BigMama_71:
(Start: 3 @56099 has 17 MA's), (Start: 4 @56114 has 4 MA's), (7, 56249), (9, 56366),

Gene: Butterscotch_71 Start: 56077, Stop: 56352, Start Num: 3
Candidate Starts for Butterscotch_71:
(Start: 3 @56077 has 17 MA's), (Start: 4 @56092 has 4 MA's), (7, 56227), (9, 56344),

Gene: Chill_75 Start: 56054, Stop: 56329, Start Num: 3
Candidate Starts for Chill_75:
(Start: 3 @56054 has 17 MA's), (Start: 4 @56069 has 4 MA's), (7, 56204), (9, 56321),

Gene: Delton_73 Start: 56475, Stop: 56750, Start Num: 3
Candidate Starts for Delton_73:
(Start: 3 @56475 has 17 MA's), (Start: 4 @56490 has 4 MA's), (7, 56625), (9, 56742),

Gene: Erk16_73 Start: 56132, Stop: 56407, Start Num: 3
Candidate Starts for Erk16_73:
(Start: 3 @56132 has 17 MA's), (Start: 4 @56147 has 4 MA's), (7, 56282), (9, 56399),

Gene: Giuseppe_75 Start: 56004, Stop: 56279, Start Num: 3
Candidate Starts for Giuseppe_75:
(Start: 3 @56004 has 17 MA's), (Start: 4 @56019 has 4 MA's), (7, 56154), (9, 56271),

Gene: Gumball_73 Start: 56492, Stop: 56752, Start Num: 4
Candidate Starts for Gumball_73:
(1, 56363), (Start: 3 @56477 has 17 MA's), (Start: 4 @56492 has 4 MA's), (7, 56627), (9, 56744),

Gene: Hawkeye_85 Start: 57789, Stop: 58046, Start Num: 4
Candidate Starts for Hawkeye_85:
(2, 57765), (Start: 4 @57789 has 4 MA's), (5, 57792), (6, 57885), (7, 57930), (8, 57954),

Gene: Helpful_76 Start: 56392, Stop: 56667, Start Num: 3
Candidate Starts for Helpful_76:
(Start: 3 @56392 has 17 MA's), (Start: 4 @56407 has 4 MA's), (7, 56542), (9, 56659),

Gene: KandZ_71 Start: 56221, Stop: 56496, Start Num: 3
Candidate Starts for KandZ_71:
(Start: 3 @56221 has 17 MA's), (Start: 4 @56236 has 4 MA's), (7, 56371), (9, 56488),

Gene: Mopey_75 Start: 56030, Stop: 56305, Start Num: 3
Candidate Starts for Mopey_75:
(Start: 3 @56030 has 17 MA's), (Start: 4 @56045 has 4 MA's), (7, 56180), (9, 56297),

Gene: Nova_73 Start: 56515, Stop: 56775, Start Num: 4
Candidate Starts for Nova_73:
(1, 56386), (Start: 3 @56500 has 17 MA's), (Start: 4 @56515 has 4 MA's), (7, 56650), (9, 56767),

Gene: PBI1_69 Start: 56008, Stop: 56283, Start Num: 3
Candidate Starts for PBI1_69:
(Start: 3 @56008 has 17 MA's), (Start: 4 @56023 has 4 MA's), (7, 56158), (9, 56275),

Gene: PLot_73 Start: 56030, Stop: 56305, Start Num: 3
Candidate Starts for PLot_73:
(Start: 3 @56030 has 17 MA's), (Start: 4 @56045 has 4 MA's), (7, 56180), (9, 56297),

Gene: Penelope2018_73 Start: 56064, Stop: 56339, Start Num: 3
Candidate Starts for Penelope2018_73:
(Start: 3 @56064 has 17 MA's), (Start: 4 @56079 has 4 MA's), (7, 56214), (9, 56331),

Gene: Prager_73 Start: 56139, Stop: 56399, Start Num: 4
Candidate Starts for Prager_73:
(Start: 3 @56124 has 17 MA's), (Start: 4 @56139 has 4 MA's), (7, 56274), (9, 56391),

Gene: SirHarley_75 Start: 56475, Stop: 56735, Start Num: 4
Candidate Starts for SirHarley_75:
(1, 56346), (Start: 3 @56460 has 17 MA's), (Start: 4 @56475 has 4 MA's), (7, 56610), (9, 56727),

Gene: Thoth_73 Start: 56118, Stop: 56393, Start Num: 3
Candidate Starts for Thoth_73:
(Start: 3 @56118 has 17 MA's), (Start: 4 @56133 has 4 MA's), (7, 56268), (9, 56385),

Gene: Troll4_73 Start: 56186, Stop: 56461, Start Num: 3
Candidate Starts for Troll4_73:
(Start: 3 @56186 has 17 MA's), (Start: 4 @56201 has 4 MA's), (7, 56336), (9, 56453),

Gene: Visconti_74 Start: 56094, Stop: 56369, Start Num: 3

Candidate Starts for Visconti_74:
(Start: 3 @56094 has 17 MA's), (Start: 4 @56109 has 4 MA's), (7, 56244), (9, 56361),

Gene: WaldoWhy_75 Start: 56054, Stop: 56329, Start Num: 3
Candidate Starts for WaldoWhy_75:
(Start: 3 @56054 has 17 MA's), (Start: 4 @56069 has 4 MA's), (7, 56204), (9, 56321),