Pham 163731


1: VC3_69 + 3
2: Odin_66 + 2
3: D29_63
4: Journey13_59
5: Koduck_67 + 3
6: MissWhite_66
7: Naji_68 + 6
8: Che12_69 + 1
9: Adzzy_69
10: DBQu4n_68
11: Serenity_69
12: Herbertwm_62
13: SwirlSquare_72
14: Misomonster_69
15: DaHudson_67 + 8
16: Wooldri_70 + 1
17: SoilDragon_68

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 163731 Report

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

Pham number 163731 has 41 members, 3 are drafts.

Phages represented in each track:
• Track 1 : VC3_69, AN9_70, C3_63, ANI8_70
• Track 2 : Odin_66, Superchunk_67, Caraxes_68
• Track 3 : D29_63
• Track 4 : Journey13_59
• Track 5 : Koduck_67, L5_63, Jsquared_69, TipsytheTRex_65
• Track 6 : MissWhite_66
• Track 7 : Naji_68, Kerberos_68, StarStuff_68, Tomathan_68, D32_67, Pomar16_67, Duplo_68
• Track 8 : Che12_69, Ph8s_69
• Track 9 : Adzzy_69
• Track 10 : DBQu4n_68
• Track 11 : Serenity_69
• Track 12 : Herbertwm_62
• Track 13 : SwirlSquare_72
• Track 14 : Misomonster_69
• Track 15 : DaHudson_67, Phoebe_69, PGHhamlin_70, Hercules11_68, Pembroke_68, Daishi_67, BreSam8_68, Colbster_66, SoYo_67
• Track 16 : Wooldri_70, Anubis_71
• Track 17 : SoilDragon_68

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

The start number called the most often in the published annotations is 7, it was called in 22 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AN9_70, ANI8_70, Adzzy_69, C3_63, Caraxes_68, Che12_69, D32_67, Duplo_68, Herbertwm_62, Journey13_59, Jsquared_69, Kerberos_68, Koduck_67, L5_63, MissWhite_66, Naji_68, Odin_66, Ph8s_69, Pomar16_67, StarStuff_68, Superchunk_67, SwirlSquare_72, TipsytheTRex_65, Tomathan_68, VC3_69,

Genes that have the "Most Annotated" start but do not call it:
• D29_63, DBQu4n_68, Serenity_69,

Genes that do not have the "Most Annotated" start:
• Anubis_71, BreSam8_68, Colbster_66, DaHudson_67, Daishi_67, Hercules11_68, Misomonster_69, PGHhamlin_70, Pembroke_68, Phoebe_69, SoYo_67, SoilDragon_68, Wooldri_70,

Summary by start number:

Start 1:
• Found in 8 of 41 (19.5%) of genes in pham
• Manual Annotations of this start: 1 of 38
• Called 12.5% of time when present
• Phage (with cluster) where this start called: D29_63 (A2),

Start 3:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 38
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DBQu4n_68 (A2),

Start 5:
• Found in 22 of 41 (53.7%) of genes in pham
• Manual Annotations of this start: 1 of 38
• Called 4.5% of time when present
• Phage (with cluster) where this start called: Serenity_69 (A2),

Start 6:
• Found in 13 of 41 (31.7%) of genes in pham
• Manual Annotations of this start: 13 of 38
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anubis_71 (A3), BreSam8_68 (A3), Colbster_66 (A3), DaHudson_67 (A3), Daishi_67 (A3), Hercules11_68 (A3), Misomonster_69 (A3), PGHhamlin_70 (A3), Pembroke_68 (A3), Phoebe_69 (A3), SoYo_67 (A3), SoilDragon_68 (A3), Wooldri_70 (A3),

Start 7:
• Found in 28 of 41 (68.3%) of genes in pham
• Manual Annotations of this start: 22 of 38
• Called 89.3% of time when present
• Phage (with cluster) where this start called: AN9_70 (A2), ANI8_70 (A2), Adzzy_69 (A2), C3_63 (A2), Caraxes_68 (A2), Che12_69 (A2), D32_67 (A2), Duplo_68 (A2), Herbertwm_62 (A2), Journey13_59 (A2), Jsquared_69 (A2), Kerberos_68 (A2), Koduck_67 (A2), L5_63 (A2), MissWhite_66 (A2), Naji_68 (A2), Odin_66 (A2), Ph8s_69 (A2), Pomar16_67 (A2), StarStuff_68 (A2), Superchunk_67 (A2), SwirlSquare_72 (A2), TipsytheTRex_65 (A2), Tomathan_68 (A2), VC3_69 (A2),

Summary by clusters:

There are 2 clusters represented in this pham: A3, A2,

Info for manual annotations of cluster A2:
•Start number 1 was manually annotated 1 time for cluster A2.
•Start number 3 was manually annotated 1 time for cluster A2.
•Start number 5 was manually annotated 1 time for cluster A2.

•Start number 7 was manually annotated 22 times for cluster A2.

Info for manual annotations of cluster A3:
•Start number 6 was manually annotated 13 times for cluster A3.

Gene Information:

Gene: AN9_70 Start: 41277, Stop: 41041, Start Num: 7
Candidate Starts for AN9_70:
(Start: 5 @41304 has 1 MA's), (Start: 7 @41277 has 22 MA's), (9, 41259), (11, 41226), (12, 41139),

Gene: ANI8_70 Start: 41277, Stop: 41041, Start Num: 7
Candidate Starts for ANI8_70:
(Start: 5 @41304 has 1 MA's), (Start: 7 @41277 has 22 MA's), (9, 41259), (11, 41226), (12, 41139),

Gene: Adzzy_69 Start: 39937, Stop: 39698, Start Num: 7
Candidate Starts for Adzzy_69:
(Start: 7 @39937 has 22 MA's), (9, 39919), (11, 39886), (12, 39799), (14, 39766), (17, 39706),

Gene: Anubis_71 Start: 41084, Stop: 40827, Start Num: 6
Candidate Starts for Anubis_71:
(Start: 6 @41084 has 13 MA's), (8, 41057), (12, 40928), (15, 40874),

Gene: BreSam8_68 Start: 41191, Stop: 40934, Start Num: 6
Candidate Starts for BreSam8_68:
(Start: 6 @41191 has 13 MA's), (8, 41164), (12, 41035), (15, 40981),

Gene: C3_63 Start: 41277, Stop: 41041, Start Num: 7
Candidate Starts for C3_63:
(Start: 5 @41304 has 1 MA's), (Start: 7 @41277 has 22 MA's), (9, 41259), (11, 41226), (12, 41139),

Gene: Caraxes_68 Start: 39685, Stop: 39446, Start Num: 7
Candidate Starts for Caraxes_68:
(Start: 7 @39685 has 22 MA's), (9, 39667), (10, 39646), (11, 39634), (12, 39547),

Gene: Che12_69 Start: 39901, Stop: 39662, Start Num: 7
Candidate Starts for Che12_69:
(Start: 5 @39925 has 1 MA's), (Start: 7 @39901 has 22 MA's), (9, 39883), (11, 39850), (12, 39763), (14, 39730), (17, 39670),

Gene: Colbster_66 Start: 41201, Stop: 40944, Start Num: 6
Candidate Starts for Colbster_66:
(Start: 6 @41201 has 13 MA's), (8, 41174), (12, 41045), (15, 40991),

Gene: D29_63 Start: 41454, Stop: 41065, Start Num: 1
Candidate Starts for D29_63:
(Start: 1 @41454 has 1 MA's), (Start: 5 @41328 has 1 MA's), (Start: 7 @41301 has 22 MA's), (9, 41283), (11, 41250), (12, 41163),

Gene: D32_67 Start: 41301, Stop: 41065, Start Num: 7
Candidate Starts for D32_67:

(Start: 1 @41454 has 1 MA's), (Start: 5 @41328 has 1 MA's), (Start: 7 @41301 has 22 MA's), (9, 41283), (11, 41250), (12, 41163),

Gene: DBQu4n_68 Start: 41336, Stop: 41046, Start Num: 3
Candidate Starts for DBQu4n_68:
(Start: 3 @41336 has 1 MA's), (Start: 5 @41309 has 1 MA's), (Start: 7 @41282 has 22 MA's), (9, 41264), (11, 41231), (12, 41144),

Gene: DaHudson_67 Start: 41190, Stop: 40933, Start Num: 6
Candidate Starts for DaHudson_67:
(Start: 6 @41190 has 13 MA's), (8, 41163), (12, 41034), (15, 40980),

Gene: Daishi_67 Start: 40066, Stop: 39809, Start Num: 6
Candidate Starts for Daishi_67:
(Start: 6 @40066 has 13 MA's), (8, 40039), (12, 39910), (15, 39856),

Gene: Duplo_68 Start: 41338, Stop: 41102, Start Num: 7
Candidate Starts for Duplo_68:
(Start: 1 @41491 has 1 MA's), (Start: 5 @41365 has 1 MA's), (Start: 7 @41338 has 22 MA's), (9, 41320), (11, 41287), (12, 41200),

Gene: Herbertwm_62 Start: 40747, Stop: 40508, Start Num: 7
Candidate Starts for Herbertwm_62:
(2, 40801), (Start: 7 @40747 has 22 MA's), (9, 40729),

Gene: Hercules11_68 Start: 41206, Stop: 40949, Start Num: 6
Candidate Starts for Hercules11_68:
(Start: 6 @41206 has 13 MA's), (8, 41179), (12, 41050), (15, 40996),

Gene: Journey13_59 Start: 38823, Stop: 38584, Start Num: 7
Candidate Starts for Journey13_59:
(Start: 7 @38823 has 22 MA's), (9, 38805), (11, 38772), (13, 38655),

Gene: Jsquared_69 Start: 40546, Stop: 40310, Start Num: 7
Candidate Starts for Jsquared_69:
(Start: 5 @40573 has 1 MA's), (Start: 7 @40546 has 22 MA's), (9, 40528), (11, 40495), (12, 40408),

Gene: Kerberos_68 Start: 41300, Stop: 41064, Start Num: 7
Candidate Starts for Kerberos_68:
(Start: 1 @41453 has 1 MA's), (Start: 5 @41327 has 1 MA's), (Start: 7 @41300 has 22 MA's), (9, 41282), (11, 41249), (12, 41162),

Gene: Koduck_67 Start: 40131, Stop: 39895, Start Num: 7
Candidate Starts for Koduck_67:
(Start: 5 @40158 has 1 MA's), (Start: 7 @40131 has 22 MA's), (9, 40113), (11, 40080), (12, 39993),

Gene: L5_63 Start: 40284, Stop: 40048, Start Num: 7
Candidate Starts for L5_63:
(Start: 5 @40311 has 1 MA's), (Start: 7 @40284 has 22 MA's), (9, 40266), (11, 40233), (12, 40146),

Gene: Misomonster_69 Start: 41224, Stop: 40967, Start Num: 6
Candidate Starts for Misomonster_69:
(Start: 6 @41224 has 13 MA's), (8, 41197), (12, 41068),

Gene: MissWhite_66 Start: 40337, Stop: 40101, Start Num: 7
Candidate Starts for MissWhite_66:
(4, 40382), (Start: 5 @40364 has 1 MA's), (Start: 7 @40337 has 22 MA's), (9, 40319), (11, 40286), (12, 40199),

Gene: Naji_68 Start: 41301, Stop: 41065, Start Num: 7
Candidate Starts for Naji_68:
(Start: 1 @41454 has 1 MA's), (Start: 5 @41328 has 1 MA's), (Start: 7 @41301 has 22 MA's), (9, 41283), (11, 41250), (12, 41163),

Gene: Odin_66 Start: 40072, Stop: 39833, Start Num: 7
Candidate Starts for Odin_66:
(Start: 7 @40072 has 22 MA's), (9, 40054), (10, 40033), (11, 40021), (12, 39934),

Gene: PGHhamlin_70 Start: 41189, Stop: 40932, Start Num: 6
Candidate Starts for PGHhamlin_70:
(Start: 6 @41189 has 13 MA's), (8, 41162), (12, 41033), (15, 40979),

Gene: Pembroke_68 Start: 41198, Stop: 40941, Start Num: 6
Candidate Starts for Pembroke_68:
(Start: 6 @41198 has 13 MA's), (8, 41171), (12, 41042), (15, 40988),

Gene: Ph8s_69 Start: 40234, Stop: 39995, Start Num: 7
Candidate Starts for Ph8s_69:
(Start: 5 @40258 has 1 MA's), (Start: 7 @40234 has 22 MA's), (9, 40216), (11, 40183), (12, 40096), (14, 40063), (17, 40003),

Gene: Phoebe_69 Start: 41190, Stop: 40933, Start Num: 6
Candidate Starts for Phoebe_69:
(Start: 6 @41190 has 13 MA's), (8, 41163), (12, 41034), (15, 40980),

Gene: Pomar16_67 Start: 41341, Stop: 41105, Start Num: 7
Candidate Starts for Pomar16_67:
(Start: 1 @41494 has 1 MA's), (Start: 5 @41368 has 1 MA's), (Start: 7 @41341 has 22 MA's), (9, 41323), (11, 41290), (12, 41203),

Gene: Serenity_69 Start: 40640, Stop: 40377, Start Num: 5
Candidate Starts for Serenity_69:
(Start: 5 @40640 has 1 MA's), (Start: 7 @40613 has 22 MA's), (9, 40595), (11, 40562), (12, 40475), (17, 40385),

Gene: SoYo_67 Start: 41109, Stop: 40852, Start Num: 6
Candidate Starts for SoYo_67:
(Start: 6 @41109 has 13 MA's), (8, 41082), (12, 40953), (15, 40899),

Gene: SoilDragon_68 Start: 40645, Stop: 40388, Start Num: 6
Candidate Starts for SoilDragon_68:
(Start: 6 @40645 has 13 MA's), (8, 40618), (12, 40489), (15, 40435), (16, 40420),

Gene: StarStuff_68 Start: 41303, Stop: 41067, Start Num: 7
Candidate Starts for StarStuff_68:

(Start: 1 @41456 has 1 MA's), (Start: 5 @41330 has 1 MA's), (Start: 7 @41303 has 22 MA's), (9, 41285), (11, 41252), (12, 41165),

Gene: Superchunk_67 Start: 39685, Stop: 39446, Start Num: 7
Candidate Starts for Superchunk_67:
(Start: 7 @39685 has 22 MA's), (9, 39667), (10, 39646), (11, 39634), (12, 39547),

Gene: SwirlSquare_72 Start: 40512, Stop: 40273, Start Num: 7
Candidate Starts for SwirlSquare_72:
(Start: 5 @40536 has 1 MA's), (Start: 7 @40512 has 22 MA's), (9, 40494), (11, 40461), (12, 40374),

Gene: TipsytheTRex_65 Start: 40588, Stop: 40352, Start Num: 7
Candidate Starts for TipsytheTRex_65:
(Start: 5 @40615 has 1 MA's), (Start: 7 @40588 has 22 MA's), (9, 40570), (11, 40537), (12, 40450),

Gene: Tomathan_68 Start: 41350, Stop: 41114, Start Num: 7
Candidate Starts for Tomathan_68:
(Start: 1 @41503 has 1 MA's), (Start: 5 @41377 has 1 MA's), (Start: 7 @41350 has 22 MA's), (9, 41332), (11, 41299), (12, 41212),

Gene: VC3_69 Start: 41277, Stop: 41041, Start Num: 7
Candidate Starts for VC3_69:
(Start: 5 @41304 has 1 MA's), (Start: 7 @41277 has 22 MA's), (9, 41259), (11, 41226), (12, 41139),

Gene: Wooldri_70 Start: 41109, Stop: 40852, Start Num: 6
Candidate Starts for Wooldri_70:
(Start: 6 @41109 has 13 MA's), (8, 41082), (12, 40953), (15, 40899),