Pham 289570

1: Kimona_86
2: Candra_85 + 5
3: DaVinci_85 + 12
4: Pmask_86 + 3
5: Blue7_90 + 5
6: GreedyLawyer_80
7: Isiphiwo_83
8: Garak_90 + 3
9: Jordennis_85

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 289570 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289570 has 37 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Kimona_86
• Track 2 : Candra_85, Neeharika16_86, SuperCallie99_83, DelvinSonDorr_82, Priamo_88, EricB_85
• Track 3 : DaVinci_85, Hoot_82, Cookiedough_87, Chartreuse_86, McFly_87, SmellyB_87, VohminGhazi_87, BABullseye_80, Kazan_88, Zulu_90, Kipper29_87, Polyphemus_80, Dorothea_87
• Track 4 : Pmask_86, JewelBug_79, Newrala_86, SuperAwesome_87
• Track 5 : Blue7_90, Indra_92, Helmet_91, Temprado_90, Wiks_88, Koko_90
• Track 6 : GreedyLawyer_80
• Track 7 : Isiphiwo_83
• Track 8 : Garak_90, Yokurt_88, Zaka_89, BennyP_88
• Track 9 : Jordennis_85

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

The start number called the most often in the published annotations is 5, it was called in 25 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BABullseye_80, Blue7_90, Chartreuse_86, Cookiedough_87, DaVinci_85, Dorothea_87, Helmet_91, Hoot_82, Indra_92, Isiphiwo_83, JewelBug_79, Jordennis_85, Kazan_88, Kipper29_87, Koko_90, McFly_87, Newrala_86, Pmask_86, Polyphemus_80, SmellyB_87, SuperAwesome_87, Temprado_90, VohminGhazi_87, Wiks_88, Zulu_90,

Genes that have the "Most Annotated" start but do not call it:
• BennyP_88, Candra_85, DelvinSonDorr_82, EricB_85, Garak_90, GreedyLawyer_80, Neeharika16_86, Priamo_88, SuperCallie99_83, Yokurt_88, Zaka_89,

Genes that do not have the "Most Annotated" start:
• Kimona_86,

Summary by start number:

Start 5:
• Found in 36 of 37 (97.3%) of genes in pham
• Manual Annotations of this start: 25 of 33
• Called 69.4% of time when present
• Phage (with cluster) where this start called: BABullseye_80 (A6), Blue7_90 (A6), Chartreuse_86 (A6), Cookiedough_87 (A6), DaVinci_85 (A6), Dorothea_87 (A6), Helmet_91 (A6), Hoot_82 (A6), Indra_92 (A6), Isiphiwo_83 (A6), JewelBug_79 (A6), Jordennis_85 (A6), Kazan_88 (A6), Kipper29_87 (A6), Koko_90 (A6), McFly_87 (A6), Newrala_86 (A6), Pmask_86 (A6), Polyphemus_80 (A6), SmellyB_87 (A6), SuperAwesome_87 (A6), Temprado_90 (A6), VohminGhazi_87 (A6), Wiks_88 (A6), Zulu_90 (A6),

Start 6:
• Found in 37 of 37 (100.0%) of genes in pham
• Manual Annotations of this start: 8 of 33
• Called 32.4% of time when present
• Phage (with cluster) where this start called: BennyP_88 (A6), Candra_85 (A6), DelvinSonDorr_82 (A6), EricB_85 (A6), Garak_90 (A6), GreedyLawyer_80 (A6), Kimona_86 (A19), Neeharika16_86 (A6), Priamo_88 (A6), SuperCallie99_83 (A6), Yokurt_88 (A6), Zaka_89 (A6),

Summary by clusters:

There are 2 clusters represented in this pham: A19, A6,

Info for manual annotations of cluster A19:
•Start number 6 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A6:
•Start number 5 was manually annotated 25 times for cluster A6.
•Start number 6 was manually annotated 7 times for cluster A6.

Gene Information:

Gene: BABullseye_80 Start: 44890, Stop: 44648, Start Num: 5
Candidate Starts for BABullseye_80:
(1, 45139), (2, 45055), (3, 45031), (Start: 5 @44890 has 25 MA's), (Start: 6 @44866 has 8 MA's), (7, 44770), (9, 44686),

Gene: BennyP_88 Start: 46711, Stop: 46493, Start Num: 6
Candidate Starts for BennyP_88:
(1, 46984), (2, 46900), (3, 46876), (Start: 5 @46735 has 25 MA's), (Start: 6 @46711 has 8 MA's), (7, 46615),

Gene: Blue7_90 Start: 46789, Stop: 46547, Start Num: 5
Candidate Starts for Blue7_90:
(1, 47038), (2, 46954), (3, 46930), (Start: 5 @46789 has 25 MA's), (Start: 6 @46765 has 8 MA's), (7, 46669),

Gene: Candra_85 Start: 46570, Stop: 46352, Start Num: 6

Candidate Starts for Candra_85:
(1, 46843), (2, 46759), (3, 46735), (Start: 5 @46594 has 25 MA's), (Start: 6 @46570 has 8 MA's), (7, 46474), (9, 46390),

Gene: Chartreuse_86 Start: 45895, Stop: 45653, Start Num: 5
Candidate Starts for Chartreuse_86:
(1, 46144), (2, 46060), (3, 46036), (Start: 5 @45895 has 25 MA's), (Start: 6 @45871 has 8 MA's), (7, 45775), (9, 45691),

Gene: Cookiedough_87 Start: 47203, Stop: 46961, Start Num: 5
Candidate Starts for Cookiedough_87:
(1, 47452), (2, 47368), (3, 47344), (Start: 5 @47203 has 25 MA's), (Start: 6 @47179 has 8 MA's), (7, 47083), (9, 46999),

Gene: DaVinci_85 Start: 45949, Stop: 45707, Start Num: 5
Candidate Starts for DaVinci_85:
(1, 46198), (2, 46114), (3, 46090), (Start: 5 @45949 has 25 MA's), (Start: 6 @45925 has 8 MA's), (7, 45829), (9, 45745),

Gene: DelvinSonDorr_82 Start: 46134, Stop: 45916, Start Num: 6
Candidate Starts for DelvinSonDorr_82:
(1, 46407), (2, 46323), (3, 46299), (Start: 5 @46158 has 25 MA's), (Start: 6 @46134 has 8 MA's), (7, 46038), (9, 45954),

Gene: Dorothea_87 Start: 47195, Stop: 46953, Start Num: 5
Candidate Starts for Dorothea_87:
(1, 47444), (2, 47360), (3, 47336), (Start: 5 @47195 has 25 MA's), (Start: 6 @47171 has 8 MA's), (7, 47075), (9, 46991),

Gene: EricB_85 Start: 46068, Stop: 45850, Start Num: 6
Candidate Starts for EricB_85:
(1, 46341), (2, 46257), (3, 46233), (Start: 5 @46092 has 25 MA's), (Start: 6 @46068 has 8 MA's), (7, 45972), (9, 45888),

Gene: Garak_90 Start: 47008, Stop: 46790, Start Num: 6
Candidate Starts for Garak_90:
(1, 47281), (2, 47197), (3, 47173), (Start: 5 @47032 has 25 MA's), (Start: 6 @47008 has 8 MA's), (7, 46912),

Gene: GreedyLawyer_80 Start: 46501, Stop: 46283, Start Num: 6
Candidate Starts for GreedyLawyer_80:
(1, 46774), (2, 46690), (3, 46666), (Start: 5 @46525 has 25 MA's), (Start: 6 @46501 has 8 MA's), (7, 46405),

Gene: Helmet_91 Start: 47032, Stop: 46790, Start Num: 5
Candidate Starts for Helmet_91:
(1, 47281), (2, 47197), (3, 47173), (Start: 5 @47032 has 25 MA's), (Start: 6 @47008 has 8 MA's), (7, 46912),

Gene: Hoot_82 Start: 44409, Stop: 44167, Start Num: 5
Candidate Starts for Hoot_82:
(1, 44658), (2, 44574), (3, 44550), (Start: 5 @44409 has 25 MA's), (Start: 6 @44385 has 8 MA's), (7, 44289), (9, 44205),

Gene: Indra_92 Start: 47033, Stop: 46791, Start Num: 5
Candidate Starts for Indra_92:
(1, 47282), (2, 47198), (3, 47174), (Start: 5 @47033 has 25 MA's), (Start: 6 @47009 has 8 MA's), (7, 46913),

Gene: Isiphiwo_83 Start: 46120, Stop: 45878, Start Num: 5
Candidate Starts for Isiphiwo_83:
(1, 46369), (2, 46285), (3, 46261), (Start: 5 @46120 has 25 MA's), (Start: 6 @46096 has 8 MA's), (7, 46000), (9, 45916), (10, 45895),

Gene: JewelBug_79 Start: 44888, Stop: 44646, Start Num: 5
Candidate Starts for JewelBug_79:
(1, 45137), (2, 45053), (3, 45029), (Start: 5 @44888 has 25 MA's), (Start: 6 @44864 has 8 MA's), (7, 44768),

Gene: Jordennis_85 Start: 46792, Stop: 46550, Start Num: 5
Candidate Starts for Jordennis_85:
(1, 47041), (2, 46957), (3, 46933), (Start: 5 @46792 has 25 MA's), (Start: 6 @46768 has 8 MA's), (7, 46672),

Gene: Kazan_88 Start: 46564, Stop: 46322, Start Num: 5
Candidate Starts for Kazan_88:
(1, 46813), (2, 46729), (3, 46705), (Start: 5 @46564 has 25 MA's), (Start: 6 @46540 has 8 MA's), (7, 46444), (9, 46360),

Gene: Kimona_86 Start: 47954, Stop: 47757, Start Num: 6
Candidate Starts for Kimona_86:
(4, 48005), (Start: 6 @47954 has 8 MA's), (8, 47828),

Gene: Kipper29_87 Start: 46567, Stop: 46325, Start Num: 5
Candidate Starts for Kipper29_87:
(1, 46816), (2, 46732), (3, 46708), (Start: 5 @46567 has 25 MA's), (Start: 6 @46543 has 8 MA's), (7, 46447), (9, 46363),

Gene: Koko_90 Start: 47422, Stop: 47180, Start Num: 5
Candidate Starts for Koko_90:
(1, 47671), (2, 47587), (3, 47563), (Start: 5 @47422 has 25 MA's), (Start: 6 @47398 has 8 MA's), (7, 47302),

Gene: McFly_87 Start: 46903, Stop: 46661, Start Num: 5
Candidate Starts for McFly_87:
(1, 47152), (2, 47068), (3, 47044), (Start: 5 @46903 has 25 MA's), (Start: 6 @46879 has 8 MA's), (7, 46783), (9, 46699),

Gene: Neeharika16_86 Start: 46630, Stop: 46412, Start Num: 6
Candidate Starts for Neeharika16_86:
(1, 46903), (2, 46819), (3, 46795), (Start: 5 @46654 has 25 MA's), (Start: 6 @46630 has 8 MA's), (7, 46534), (9, 46450),

Gene: Newrala_86 Start: 47000, Stop: 46758, Start Num: 5
Candidate Starts for Newrala_86:

(1, 47249), (2, 47165), (3, 47141), (Start: 5 @47000 has 25 MA's), (Start: 6 @46976 has 8 MA's), (7, 46880),

Gene: Pmask_86 Start: 47201, Stop: 46959, Start Num: 5
Candidate Starts for Pmask_86:
(1, 47450), (2, 47366), (3, 47342), (Start: 5 @47201 has 25 MA's), (Start: 6 @47177 has 8 MA's), (7, 47081),

Gene: Polyphemus_80 Start: 44972, Stop: 44730, Start Num: 5
Candidate Starts for Polyphemus_80:
(1, 45221), (2, 45137), (3, 45113), (Start: 5 @44972 has 25 MA's), (Start: 6 @44948 has 8 MA's), (7, 44852), (9, 44768),

Gene: Priamo_88 Start: 46420, Stop: 46202, Start Num: 6
Candidate Starts for Priamo_88:
(1, 46693), (2, 46609), (3, 46585), (Start: 5 @46444 has 25 MA's), (Start: 6 @46420 has 8 MA's), (7, 46324), (9, 46240),

Gene: SmellyB_87 Start: 46558, Stop: 46316, Start Num: 5
Candidate Starts for SmellyB_87:
(1, 46807), (2, 46723), (3, 46699), (Start: 5 @46558 has 25 MA's), (Start: 6 @46534 has 8 MA's), (7, 46438), (9, 46354),

Gene: SuperAwesome_87 Start: 47240, Stop: 46998, Start Num: 5
Candidate Starts for SuperAwesome_87:
(1, 47489), (2, 47405), (3, 47381), (Start: 5 @47240 has 25 MA's), (Start: 6 @47216 has 8 MA's), (7, 47120),

Gene: SuperCallie99_83 Start: 46597, Stop: 46379, Start Num: 6
Candidate Starts for SuperCallie99_83:
(1, 46870), (2, 46786), (3, 46762), (Start: 5 @46621 has 25 MA's), (Start: 6 @46597 has 8 MA's), (7, 46501), (9, 46417),

Gene: Temprado_90 Start: 47032, Stop: 46790, Start Num: 5
Candidate Starts for Temprado_90:
(1, 47281), (2, 47197), (3, 47173), (Start: 5 @47032 has 25 MA's), (Start: 6 @47008 has 8 MA's), (7, 46912),

Gene: VohminGhazi_87 Start: 46559, Stop: 46317, Start Num: 5
Candidate Starts for VohminGhazi_87:
(1, 46808), (2, 46724), (3, 46700), (Start: 5 @46559 has 25 MA's), (Start: 6 @46535 has 8 MA's), (7, 46439), (9, 46355),

Gene: Wiks_88 Start: 46663, Stop: 46421, Start Num: 5
Candidate Starts for Wiks_88:
(1, 46912), (2, 46828), (3, 46804), (Start: 5 @46663 has 25 MA's), (Start: 6 @46639 has 8 MA's), (7, 46543),

Gene: Yokurt_88 Start: 46639, Stop: 46421, Start Num: 6
Candidate Starts for Yokurt_88:
(1, 46912), (2, 46828), (3, 46804), (Start: 5 @46663 has 25 MA's), (Start: 6 @46639 has 8 MA's), (7, 46543),

Gene: Zaka_89 Start: 46639, Stop: 46421, Start Num: 6
Candidate Starts for Zaka_89:
(1, 46912), (2, 46828), (3, 46804), (Start: 5 @46663 has 25 MA's), (Start: 6 @46639 has 8 MA's), (7, 46543),

Gene: Zulu_90 Start: 47040, Stop: 46798, Start Num: 5
Candidate Starts for Zulu_90:
(1, 47289), (2, 47205), (3, 47181), (Start: 5 @47040 has 25 MA's), (Start: 6 @47016 has 8 MA's), (7, 46920), (9, 46836),