

Pham 331034



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 331034 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331034 has 37 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Mercedes_52
- Track 2 : Juanyo_61
- Track 3 : HairyMan_58
- Track 4 : MiniVolent_60
- Track 5 : Fabyndrax_59, Cidela_59
- Track 6 : Quartz_60
- Track 7 : Mandalorian_59
- Track 8 : Carostasia_59
- Track 9 : Nucci_59
- Track 10 : YuuY_60
- Track 11 : Ixel_58
- Track 12 : HerculesXL_55
- Track 13 : WestPM_54
- Track 14 : Penta_54
- Track 15 : Kavo_54
- Track 16 : Tinyman4_54
- Track 17 : Scissor2024_56
- Track 18 : Schimmels22_55
- Track 19 : GreenIvy_58
- Track 20 : Alakazam_57
- Track 21 : TwoBits_57
- Track 22 : LilTerminator_59
- Track 23 : BaronJohn_59
- Track 24 : Fulton_59, CaptainRex_59, Librie_59, Hasitha_59
- Track 25 : Wardwill_61
- Track 26 : Clock_55
- Track 27 : Vafari_58
- Track 28 : QuadZero_59
- Track 29 : Neferthena_60
- Track 30 : Zayuliv_59
- Track 31 : WilliamStrong_58
- Track 32 : Juicer_57, Jemerald_57

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

The start number called the most often in the published annotations is 14, it was called in 12 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BaronJohn_59, CaptainRex_59, Fulton_59, GreenIvy_58, Hasitha_59, Librie_59, LilTerminator_59, Neferthena_60, QuadZero_59, TwoBits_57, Vafari_58, Wardwill_61, Zayuliv_59,

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

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

- Alakazam_57, Carostasia_59, Cidela_59, Clock_55, Fabyndrax_59, HairyMan_58, HerculesXL_55, Ixel_58, Jemerald_57, Juanyo_61, Juicer_57, Kavo_54, Mandalorian_59, Mercedes_52, MiniVolent_60, Nucci_59, Penta_54, Quartz_60, Schimmels22_55, Scissor2024_56, Tinyman4_54, WestPM_54, WilliamStrong_58, YuuY_60,

Summary by start number:

Start 7:

- Found in 9 of 37 (24.3%) of genes in pham
- Manual Annotations of this start: 6 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Carostasia_59 (EA10), Cidela_59 (EA10), Fabyndrax_59 (EA10), Juanyo_61 (EA10), Mandalorian_59 (EA10), MiniVolent_60 (EA10), Nucci_59 (EA10), Quartz_60 (EA10), YuuY_60 (EA10),

Start 10:

- Found in 9 of 37 (24.3%) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Alakazam_57 (EA5),

Start 11:

- Found in 1 of 37 (2.7%) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ixel_58 (EA11),

Start 13:

- Found in 1 of 37 (2.7%) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Clock_55 (EA5),

Start 14:

- Found in 13 of 37 (35.1%) of genes in pham
- Manual Annotations of this start: 12 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BaronJohn_59 (EA5), CaptainRex_59 (EA5), Fulton_59 (EA5), GreenIvy_58 (EA5), Hasitha_59 (EA5), Librie_59 (EA5),

LilTerminator_59 (EA5), Neferthena_60 (EA5), QuadZero_59 (EA5), TwoBits_57 (EA5), Vafari_58 (EA5), Wardwill_61 (EA5), Zayuliv_59 (EA5),

Start 15:

- Found in 12 of 37 (32.4%) of genes in pham
- Manual Annotations of this start: 10 of 31
- Called 91.7% of time when present
- Phage (with cluster) where this start called: HairyMan_58 (EA10), HerculesXL_55 (EA11), Jemerald_57 (EA6), Juicer_57 (EA6), Kavo_54 (EA11), Mercedes_52 (EA), Schimmels22_55 (EA11), Scissor2024_56 (EA11), Tinyman4_54 (EA11), WestPM_54 (EA11), WilliamStrong_58 (EA6),

Start 22:

- Found in 7 of 37 (18.9%) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Penta_54 (EA11),

Summary by clusters:

There are 5 clusters represented in this pham: EA, EA11, EA5, EA10, EA6,

Info for manual annotations of cluster EA:

- Start number 15 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA10:

- Start number 7 was manually annotated 6 times for cluster EA10.
- Start number 15 was manually annotated 1 time for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 11 was manually annotated 1 time for cluster EA11.
- Start number 15 was manually annotated 5 times for cluster EA11.

Info for manual annotations of cluster EA5:

- Start number 10 was manually annotated 1 time for cluster EA5.
- Start number 13 was manually annotated 1 time for cluster EA5.
- Start number 14 was manually annotated 12 times for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 15 was manually annotated 3 times for cluster EA6.

Gene Information:

Gene: Alakazam_57 Start: 39528, Stop: 39034, Start Num: 10

Candidate Starts for Alakazam_57:

(8, 39552), (Start: 10 @39528 has 1 MA's), (23, 39450), (33, 39384), (34, 39381), (41, 39291), (48, 39234), (53, 39201), (62, 39135),

Gene: BaronJohn_59 Start: 38940, Stop: 38494, Start Num: 14

Candidate Starts for BaronJohn_59:

(Start: 14 @38940 has 12 MA's), (20, 38913), (29, 38847), (31, 38838), (54, 38634), (55, 38628), (62, 38577), (70, 38538),

Gene: CaptainRex_59 Start: 38335, Stop: 37880, Start Num: 14

Candidate Starts for CaptainRex_59:

(Start: 14 @38335 has 12 MA's), (25, 38281), (29, 38242), (31, 38233), (36, 38176), (41, 38131), (42, 38128), (54, 38029), (55, 38023), (62, 37972), (77, 37915),

Gene: Carostasia_59 Start: 39066, Stop: 38590, Start Num: 7

Candidate Starts for Carostasia_59:

(5, 39204), (Start: 7 @39066 has 6 MA's), (9, 39054), (Start: 10 @39039 has 1 MA's), (34, 38949), (39, 38868), (41, 38859), (46, 38814), (48, 38802), (49, 38799), (52, 38781), (58, 38727), (63, 38676), (67, 38661), (75, 38637), (82, 38610), (84, 38601),

Gene: Cidela_59 Start: 40046, Stop: 39510, Start Num: 7

Candidate Starts for Cidela_59:

(5, 40175), (6, 40049), (Start: 7 @40046 has 6 MA's), (9, 40034), (Start: 10 @40019 has 1 MA's), (23, 39938), (34, 39869), (37, 39818), (39, 39788), (41, 39779), (48, 39722), (49, 39719), (53, 39689), (67, 39581), (75, 39557), (82, 39530), (84, 39521), (85, 39518),

Gene: Clock_55 Start: 39828, Stop: 39373, Start Num: 13

Candidate Starts for Clock_55:

(Start: 13 @39828 has 1 MA's), (30, 39708), (43, 39588), (60, 39471), (62, 39456), (72, 39414), (77, 39396),

Gene: Fabyndrax_59 Start: 40058, Stop: 39522, Start Num: 7

Candidate Starts for Fabyndrax_59:

(5, 40187), (6, 40061), (Start: 7 @40058 has 6 MA's), (9, 40046), (Start: 10 @40031 has 1 MA's), (23, 39950), (34, 39881), (37, 39830), (39, 39800), (41, 39791), (48, 39734), (49, 39731), (53, 39701), (67, 39593), (75, 39569), (82, 39542), (84, 39533), (85, 39530),

Gene: Fulton_59 Start: 38336, Stop: 37881, Start Num: 14

Candidate Starts for Fulton_59:

(Start: 14 @38336 has 12 MA's), (25, 38282), (29, 38243), (31, 38234), (36, 38177), (41, 38132), (42, 38129), (54, 38030), (55, 38024), (62, 37973), (77, 37916),

Gene: Greenlvy_58 Start: 38681, Stop: 38235, Start Num: 14

Candidate Starts for Greenlvy_58:

(Start: 14 @38681 has 12 MA's), (29, 38588), (31, 38579), (36, 38522), (54, 38375), (55, 38369), (62, 38318),

Gene: HairyMan_58 Start: 39760, Stop: 39272, Start Num: 15

Candidate Starts for HairyMan_58:

(Start: 15 @39760 has 10 MA's), (30, 39649), (35, 39622), (45, 39514), (47, 39490), (56, 39430), (62, 39385), (66, 39355), (76, 39316),

Gene: Hasitha_59 Start: 38348, Stop: 37893, Start Num: 14

Candidate Starts for Hasitha_59:

(Start: 14 @38348 has 12 MA's), (25, 38294), (29, 38255), (31, 38246), (36, 38189), (41, 38144), (42, 38141), (54, 38042), (55, 38036), (62, 37985), (77, 37928),

Gene: HerculesXL_55 Start: 37238, Stop: 36768, Start Num: 15

Candidate Starts for HerculesXL_55:

(Start: 15 @37238 has 10 MA's), (22, 37196), (28, 37151), (29, 37145), (31, 37136), (38, 37064), (41, 37034), (54, 36932), (57, 36917), (62, 36875), (64, 36854), (71, 36830), (73, 36821),

Gene: Ixel_58 Start: 38997, Stop: 38503, Start Num: 11

Candidate Starts for Ixel_58:

(Start: 11 @38997 has 1 MA's), (12, 38994), (24, 38910), (26, 38895), (27, 38874), (30, 38859), (32, 38850), (44, 38733), (48, 38697), (60, 38622), (62, 38607), (83, 38514),

Gene: Jemerald_57 Start: 38773, Stop: 38324, Start Num: 15

Candidate Starts for Jemerald_57:

(Start: 15 @38773 has 10 MA's), (18, 38752), (29, 38677), (31, 38668), (39, 38575), (46, 38521), (51, 38500), (52, 38488), (54, 38464), (56, 38452), (57, 38449), (61, 38416), (79, 38338),

Gene: Juanyo_61 Start: 39749, Stop: 39273, Start Num: 7

Candidate Starts for Juanyo_61:

(Start: 7 @39749 has 6 MA's), (9, 39737), (Start: 10 @39722 has 1 MA's), (34, 39632), (39, 39551), (41, 39542), (48, 39485), (49, 39482), (52, 39464), (67, 39344), (75, 39320), (82, 39293), (84, 39284), (85, 39281),

Gene: Juicer_57 Start: 38773, Stop: 38324, Start Num: 15

Candidate Starts for Juicer_57:

(Start: 15 @38773 has 10 MA's), (18, 38752), (29, 38677), (31, 38668), (39, 38575), (46, 38521), (51, 38500), (52, 38488), (54, 38464), (56, 38452), (57, 38449), (61, 38416), (79, 38338),

Gene: Kavo_54 Start: 37284, Stop: 36814, Start Num: 15

Candidate Starts for Kavo_54:

(Start: 15 @37284 has 10 MA's), (29, 37191), (31, 37182), (41, 37080), (54, 36978), (57, 36963), (62, 36921), (64, 36900), (69, 36882), (71, 36876), (73, 36867),

Gene: Librie_59 Start: 38335, Stop: 37880, Start Num: 14

Candidate Starts for Librie_59:

(Start: 14 @38335 has 12 MA's), (25, 38281), (29, 38242), (31, 38233), (36, 38176), (41, 38131), (42, 38128), (54, 38029), (55, 38023), (62, 37972), (77, 37915),

Gene: LilTerminator_59 Start: 38362, Stop: 37886, Start Num: 14

Candidate Starts for LilTerminator_59:

(Start: 14 @38362 has 12 MA's), (29, 38269), (31, 38260), (54, 38056), (55, 38050), (62, 37999), (63, 37975), (77, 37927),

Gene: Mandalorian_59 Start: 39077, Stop: 38601, Start Num: 7

Candidate Starts for Mandalorian_59:

(Start: 7 @39077 has 6 MA's), (9, 39065), (Start: 10 @39050 has 1 MA's), (34, 38960), (39, 38879), (41, 38870), (46, 38825), (48, 38813), (49, 38810), (52, 38792), (58, 38738), (63, 38687), (67, 38672), (75, 38648), (82, 38621), (84, 38612),

Gene: Mercedes_52 Start: 38085, Stop: 37642, Start Num: 15

Candidate Starts for Mercedes_52:

(Start: 15 @38085 has 10 MA's), (18, 38064), (29, 37992), (40, 37887), (50, 37818), (54, 37779), (59, 37743), (80, 37647),

Gene: MiniVolent_60 Start: 39716, Stop: 39240, Start Num: 7

Candidate Starts for MiniVolent_60:

(Start: 7 @39716 has 6 MA's), (9, 39704), (Start: 10 @39689 has 1 MA's), (34, 39599), (39, 39518), (41, 39509), (48, 39452), (49, 39449), (52, 39431), (67, 39311), (75, 39287), (82, 39260), (84, 39251), (85, 39248),

Gene: Neferthena_60 Start: 39850, Stop: 39377, Start Num: 14

Candidate Starts for Neferthena_60:

(Start: 14 @39850 has 12 MA's), (21, 39802), (33, 39727), (34, 39724), (39, 39643), (41, 39634), (53, 39544), (56, 39520), (62, 39487),

Gene: Nucci_59 Start: 39046, Stop: 38570, Start Num: 7

Candidate Starts for Nucci_59:

(1, 39430), (2, 39319), (3, 39289), (4, 39280), (5, 39184), (Start: 7 @39046 has 6 MA's), (9, 39034), (Start: 10 @39019 has 1 MA's), (34, 38929), (39, 38848), (41, 38839), (46, 38794), (48, 38782), (49, 38779), (52, 38761), (58, 38707), (63, 38656), (67, 38641), (75, 38617), (82, 38590), (84, 38581),

Gene: Penta_54 Start: 37397, Stop: 36969, Start Num: 22

Candidate Starts for Penta_54:

(Start: 15 @37439 has 10 MA's), (22, 37397), (29, 37346), (31, 37337), (41, 37235), (57, 37118), (62, 37076), (65, 37052), (69, 37037), (73, 37022),

Gene: QuadZero_59 Start: 38439, Stop: 37981, Start Num: 14

Candidate Starts for QuadZero_59:

(Start: 14 @38439 has 12 MA's), (20, 38412), (29, 38346), (31, 38337), (54, 38133), (55, 38127), (62, 38076), (68, 38043), (77, 38016),

Gene: Quartz_60 Start: 39190, Stop: 38714, Start Num: 7

Candidate Starts for Quartz_60:

(Start: 7 @39190 has 6 MA's), (9, 39178), (Start: 10 @39163 has 1 MA's), (34, 39073), (39, 38992), (41, 38983), (46, 38938), (48, 38926), (49, 38923), (52, 38905), (58, 38851), (63, 38800), (67, 38785), (75, 38761), (82, 38734), (84, 38725),

Gene: Schimmels22_55 Start: 37731, Stop: 37261, Start Num: 15

Candidate Starts for Schimmels22_55:

(Start: 15 @37731 has 10 MA's), (22, 37689), (29, 37638), (31, 37629), (35, 37605), (41, 37527), (54, 37425), (57, 37410), (62, 37368), (64, 37347), (69, 37329), (73, 37314),

Gene: Scissor2024_56 Start: 37371, Stop: 36901, Start Num: 15

Candidate Starts for Scissor2024_56:

(Start: 15 @37371 has 10 MA's), (22, 37329), (29, 37278), (31, 37269), (41, 37167), (54, 37065), (57, 37050), (62, 37008), (64, 36987), (69, 36969), (71, 36963), (73, 36954),

Gene: Tinyman4_54 Start: 37234, Stop: 36764, Start Num: 15

Candidate Starts for Tinyman4_54:

(Start: 15 @37234 has 10 MA's), (22, 37192), (29, 37141), (31, 37132), (41, 37030), (54, 36928), (57, 36913), (62, 36871), (64, 36850), (71, 36826), (73, 36817),

Gene: TwoBits_57 Start: 38723, Stop: 38226, Start Num: 14

Candidate Starts for TwoBits_57:

(Start: 14 @38723 has 12 MA's), (16, 38714), (17, 38711), (19, 38696), (31, 38579), (35, 38555), (41, 38477), (42, 38474), (52, 38399), (54, 38375), (55, 38369), (62, 38318), (77, 38261),

Gene: Vafari_58 Start: 38360, Stop: 37884, Start Num: 14

Candidate Starts for Vafari_58:

(Start: 14 @38360 has 12 MA's), (29, 38267), (31, 38258), (36, 38201), (54, 38054), (55, 38048), (62, 37997), (63, 37973), (77, 37925),

Gene: Wardwill_61 Start: 38510, Stop: 38034, Start Num: 14

Candidate Starts for Wardwill_61:

(Start: 14 @38510 has 12 MA's), (18, 38489), (29, 38417), (31, 38408), (54, 38204), (55, 38198), (62, 38147), (63, 38123), (77, 38075),

Gene: WestPM_54 Start: 37599, Stop: 37129, Start Num: 15

Candidate Starts for WestPM_54:

(Start: 15 @37599 has 10 MA's), (22, 37557), (29, 37506), (31, 37497), (41, 37395), (54, 37293), (57, 37278), (62, 37236), (65, 37212), (69, 37197), (71, 37191),

Gene: WilliamStrong_58 Start: 38811, Stop: 38350, Start Num: 15

Candidate Starts for WilliamStrong_58:

(Start: 15 @38811 has 10 MA's), (22, 38769), (29, 38718), (38, 38637), (40, 38613), (41, 38607), (42, 38604), (54, 38505), (55, 38499), (56, 38493), (62, 38448), (74, 38394), (78, 38382),

Gene: YuuY_60 Start: 39625, Stop: 39143, Start Num: 7

Candidate Starts for YuuY_60:

(Start: 7 @39625 has 6 MA's), (9, 39613), (34, 39508), (39, 39427), (41, 39418), (48, 39361), (49, 39358), (67, 39220), (75, 39196), (81, 39166), (85, 39151),

Gene: Zayuliv_59 Start: 39011, Stop: 38553, Start Num: 14

Candidate Starts for Zayuliv_59:

(Start: 14 @39011 has 12 MA's), (20, 38984), (29, 38918), (31, 38909), (54, 38705), (55, 38699), (62, 38648), (68, 38615),