

Pham 296922



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 296922 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296922 has 23 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Tinyman4_59
- Track 2 : Penta_59
- Track 3 : Scissor2024_61
- Track 4 : HerculesXL_61
- Track 5 : Kavo_60
- Track 6 : ChikPic_63
- Track 7 : Xebius_63
- Track 8 : PSirce_63
- Track 9 : Hasitha_62
- Track 10 : QuadZero_62
- Track 11 : Librie_62, CaptainRex_62, Fulton_62
- Track 12 : Greenlvy_61
- Track 13 : TwoBits_61
- Track 14 : BaronJohn_63
- Track 15 : Zepp_62
- Track 16 : Luna18_63, KatChan_62, Chepli_63
- Track 17 : Juicer_63, Jemerald_63
- Track 18 : Morigan_64

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

The start number called the most often in the published annotations is 56, it was called in 15 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BaronJohn_63, CaptainRex_62, Chepli_63, Fulton_62, Greenlvy_61, Hasitha_62, HerculesXL_61, Jemerald_63, Juicer_63, KatChan_62, Kavo_60, Librie_62, Luna18_63, Penta_59, QuadZero_62, Scissor2024_61, Tinyman4_59, TwoBits_61, Zepp_62,

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:

- ChikPic_63, Morrigan_64, PSirce_63, Xebius_63,

Summary by start number:

Start 56:

- Found in 19 of 23 (82.6%) of genes in pham
- Manual Annotations of this start: 15 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BaronJohn_63 (EA5), CaptainRex_62 (EA5), Chepli_63 (EA6), Fulton_62 (EA5), Greenlvy_61 (EA5), Hasitha_62 (EA5), HerculesXL_61 (EA11), Jemerald_63 (EA6), Juicer_63 (EA6), KatChan_62 (EA6), Kavo_60 (EA11), Librie_62 (EA5), Luna18_63 (EA6), Penta_59 (EA11), QuadZero_62 (EA5), Scissor2024_61 (EA11), Tinyman4_59 (EA11), TwoBits_61 (EA5), Zepp_62 (EA5),

Start 57:

- Found in 1 of 23 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Morrigan_64 (EA6),

Start 75:

- Found in 12 of 23 (52.2%) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 25.0% of time when present
- Phage (with cluster) where this start called: ChikPic_63 (EA2), PSirce_63 (EA2), Xebius_63 (EA2),

Summary by clusters:

There are 4 clusters represented in this pham: EA5, EA2, EA11, EA6,

Info for manual annotations of cluster EA11:

- Start number 56 was manually annotated 2 times for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 75 was manually annotated 2 times for cluster EA2.

Info for manual annotations of cluster EA5:

- Start number 56 was manually annotated 8 times for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 56 was manually annotated 5 times for cluster EA6.
- Start number 57 was manually annotated 1 time for cluster EA6.

Gene Information:

Gene: BaronJohn_63 Start: 39818, Stop: 40186, Start Num: 56

Candidate Starts for BaronJohn_63:

(53, 39737), (Start: 56 @39818 has 15 MA's), (78, 39890), (81, 39902), (85, 39944), (93, 40019), (97, 40034), (105, 40109), (108, 40136), (110, 40148),

Gene: CaptainRex_62 Start: 39228, Stop: 39563, Start Num: 56

Candidate Starts for CaptainRex_62:

(38, 38916), (39, 38931), (46, 38958), (53, 39147), (55, 39225), (Start: 56 @39228 has 15 MA's), (78, 39300), (81, 39312), (85, 39354), (97, 39411), (105, 39486), (108, 39513), (110, 39525),

Gene: Chepli_63 Start: 39731, Stop: 40042, Start Num: 56

Candidate Starts for Chepli_63:

(51, 39542), (54, 39677), (Start: 56 @39731 has 15 MA's), (59, 39746), (74, 39809), (Start: 75 @39812 has 2 MA's), (76, 39824), (79, 39836), (91, 39872), (103, 39932), (110, 40004),

Gene: ChikPic_63 Start: 39809, Stop: 40126, Start Num: 75

Candidate Starts for ChikPic_63:

(Start: 75 @39809 has 2 MA's), (77, 39824), (80, 39842), (86, 39890), (90, 39902), (94, 39947), (95, 39950), (98, 39962), (106, 40043), (114, 40103), (115, 40106),

Gene: Fulton_62 Start: 39229, Stop: 39564, Start Num: 56

Candidate Starts for Fulton_62:

(38, 38917), (39, 38932), (46, 38959), (53, 39148), (55, 39226), (Start: 56 @39229 has 15 MA's), (78, 39301), (81, 39313), (85, 39355), (97, 39412), (105, 39487), (108, 39514), (110, 39526),

Gene: Greenlvy_61 Start: 39603, Stop: 39938, Start Num: 56

Candidate Starts for Greenlvy_61:

(53, 39522), (Start: 56 @39603 has 15 MA's), (78, 39675), (81, 39687), (85, 39729), (97, 39786), (105, 39861), (108, 39888), (110, 39900),

Gene: Hasitha_62 Start: 39239, Stop: 39574, Start Num: 56

Candidate Starts for Hasitha_62:

(38, 38927), (39, 38942), (46, 38969), (53, 39158), (55, 39236), (Start: 56 @39239 has 15 MA's), (78, 39311), (81, 39323), (85, 39365), (97, 39422), (105, 39497), (110, 39536),

Gene: HerculesXL_61 Start: 38678, Stop: 39088, Start Num: 56

Candidate Starts for HerculesXL_61:

(31, 38312), (38, 38384), (41, 38408), (48, 38429), (Start: 56 @38678 has 15 MA's), (66, 38744), (Start: 75 @38777 has 2 MA's), (76, 38789), (88, 38867), (97, 38915), (101, 38942), (109, 39026),

Gene: Jemerald_63 Start: 40506, Stop: 40928, Start Num: 56

Candidate Starts for Jemerald_63:

(17, 39861), (19, 39882), (24, 39909), (27, 39996), (30, 40077), (33, 40173), (35, 40179), (37, 40188), (38, 40194), (39, 40209), (41, 40218), (54, 40452), (Start: 56 @40506 has 15 MA's), (60, 40551), (65, 40584), (68, 40596), (69, 40608), (73, 40632), (96, 40773), (97, 40776), (102, 40812), (104, 40821), (108, 40878), (111, 40902),

Gene: Juicer_63 Start: 40506, Stop: 40928, Start Num: 56

Candidate Starts for Juicer_63:

(17, 39861), (19, 39882), (24, 39909), (27, 39996), (30, 40077), (33, 40173), (35, 40179), (37, 40188), (38, 40194), (39, 40209), (41, 40218), (54, 40452), (Start: 56 @40506 has 15 MA's), (60, 40551), (65, 40584), (68, 40596), (69, 40608), (73, 40632), (96, 40773), (97, 40776), (102, 40812), (104, 40821), (108, 40878), (111, 40902),

Gene: KatChan_62 Start: 39748, Stop: 40059, Start Num: 56

Candidate Starts for KatChan_62:

(51, 39559), (54, 39694), (Start: 56 @39748 has 15 MA's), (59, 39763), (74, 39826), (Start: 75 @39829 has 2 MA's), (76, 39841), (79, 39853), (91, 39889), (103, 39949), (110, 40021),

Gene: Kavo_60 Start: 38739, Stop: 39128, Start Num: 56

Candidate Starts for Kavo_60:

(48, 38481), (Start: 56 @38739 has 15 MA's), (66, 38802), (Start: 75 @38835 has 2 MA's), (76, 38847), (84, 38910), (88, 38925), (97, 38955), (101, 38982), (109, 39066),

Gene: Librie_62 Start: 39228, Stop: 39563, Start Num: 56

Candidate Starts for Librie_62:

(38, 38916), (39, 38931), (46, 38958), (53, 39147), (55, 39225), (Start: 56 @39228 has 15 MA's), (78, 39300), (81, 39312), (85, 39354), (97, 39411), (105, 39486), (108, 39513), (110, 39525),

Gene: Luna18_63 Start: 39748, Stop: 40059, Start Num: 56

Candidate Starts for Luna18_63:

(51, 39559), (54, 39694), (Start: 56 @39748 has 15 MA's), (59, 39763), (74, 39826), (Start: 75 @39829 has 2 MA's), (76, 39841), (79, 39853), (91, 39889), (103, 39949), (110, 40021),

Gene: Morrigan_64 Start: 39803, Stop: 40204, Start Num: 57

Candidate Starts for Morrigan_64:

(29, 39377), (32, 39455), (33, 39476), (34, 39479), (38, 39497), (43, 39524), (50, 39572), (52, 39611), (54, 39746), (Start: 57 @39803 has 1 MA's), (67, 39863), (74, 39881), (Start: 75 @39884 has 2 MA's), (76, 39896), (92, 40019), (97, 40055), (99, 40061), (100, 40067), (103, 40094), (105, 40127), (110, 40166),

Gene: PSirce_63 Start: 40001, Stop: 40318, Start Num: 75

Candidate Starts for PSirce_63:

(74, 39998), (Start: 75 @40001 has 2 MA's), (77, 40016), (80, 40034), (86, 40082), (90, 40094), (94, 40139), (95, 40142), (98, 40154), (106, 40235), (110, 40265), (113, 40289),

Gene: Penta_59 Start: 38887, Stop: 39330, Start Num: 56

Candidate Starts for Penta_59:

(2, 38041), (3, 38065), (4, 38071), (5, 38074), (6, 38086), (7, 38095), (8, 38098), (9, 38101), (10, 38140), (11, 38167), (12, 38182), (13, 38209), (14, 38233), (15, 38242), (16, 38257), (18, 38269), (20, 38284), (21, 38287), (23, 38296), (26, 38335), (28, 38419), (31, 38521), (38, 38593), (41, 38617), (48, 38638), (Start: 56 @38887 has 15 MA's), (58, 38899), (71, 38989), (Start: 75 @39010 has 2 MA's), (76, 39022), (87, 39094), (107, 39250), (109, 39262),

Gene: QuadZero_62 Start: 39331, Stop: 39765, Start Num: 56

Candidate Starts for QuadZero_62:

(36, 39013), (40, 39037), (42, 39046), (44, 39052), (45, 39058), (47, 39061), (53, 39250), (Start: 56 @39331 has 15 MA's), (62, 39406), (64, 39418), (78, 39502), (81, 39514), (85, 39556), (97, 39613), (105, 39688), (108, 39715), (110, 39727),

Gene: Scissor2024_61 Start: 38650, Stop: 39051, Start Num: 56

Candidate Starts for Scissor2024_61:

(40, 38365), (46, 38389), (49, 38398), (Start: 56 @38650 has 15 MA's), (66, 38716), (Start: 75 @38749 has 2 MA's), (76, 38761), (82, 38797), (87, 38836), (88, 38839), (96, 38884), (107, 38992), (109, 39004), (110, 39007),

Gene: Tinyman4_59 Start: 38673, Stop: 39083, Start Num: 56

Candidate Starts for Tinyman4_59:

(1, 37818), (2, 37827), (3, 37851), (4, 37857), (5, 37860), (6, 37872), (7, 37881), (8, 37884), (9, 37887), (10, 37926), (11, 37953), (12, 37968), (13, 37995), (14, 38019), (15, 38028), (16, 38043), (22, 38076), (25, 38103), (28, 38205), (31, 38307), (38, 38379), (41, 38403), (48, 38424), (Start: 56 @38673 has 15 MA's), (66, 38739), (Start: 75 @38772 has 2 MA's), (76, 38784), (87, 38859), (97, 38910), (101, 38937), (109, 39021),

Gene: TwoBits_61 Start: 39613, Stop: 39975, Start Num: 56

Candidate Starts for TwoBits_61:

(53, 39532), (Start: 56 @39613 has 15 MA's), (78, 39685), (81, 39697), (83, 39724), (96, 39820), (97, 39823), (105, 39898), (108, 39925),

Gene: Xebius_63 Start: 39832, Stop: 40149, Start Num: 75

Candidate Starts for Xebius_63:

(Start: 75 @39832 has 2 MA's), (77, 39847), (80, 39865), (86, 39913), (90, 39925), (94, 39970), (95, 39973), (98, 39985), (106, 40066), (110, 40096), (114, 40126), (115, 40129),

Gene: Zepp_62 Start: 39460, Stop: 39873, Start Num: 56

Candidate Starts for Zepp_62:

(36, 39142), (40, 39166), (42, 39175), (44, 39181), (45, 39187), (47, 39190), (53, 39379), (Start: 56 @39460 has 15 MA's), (61, 39526), (63, 39535), (70, 39556), (72, 39568), (89, 39679), (108, 39823), (110, 39835), (112, 39850),