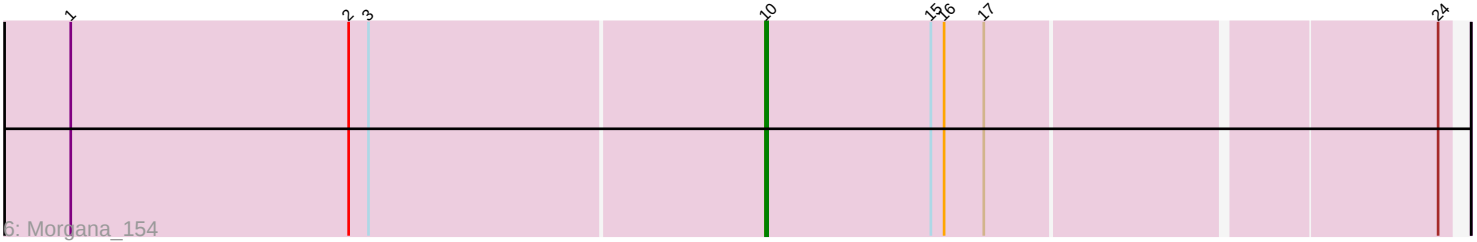
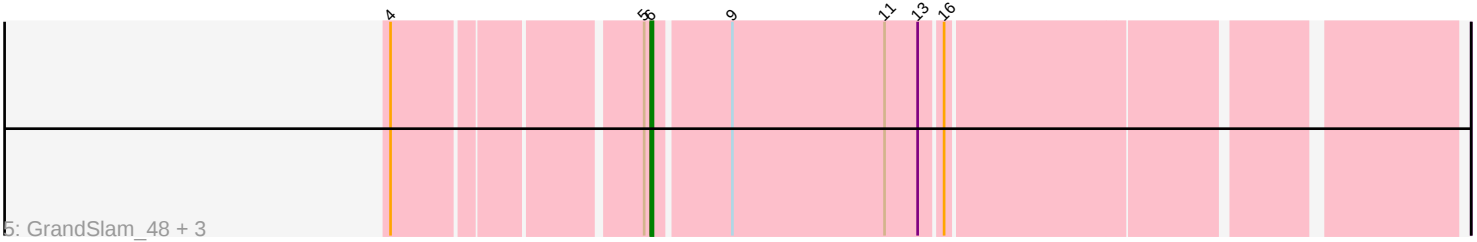
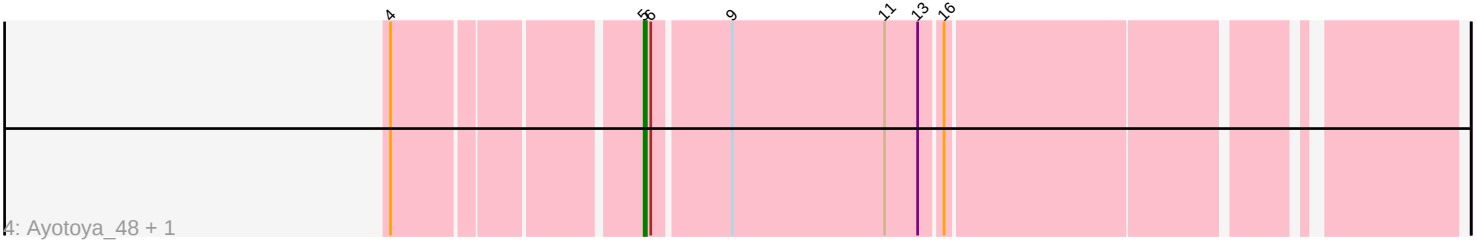
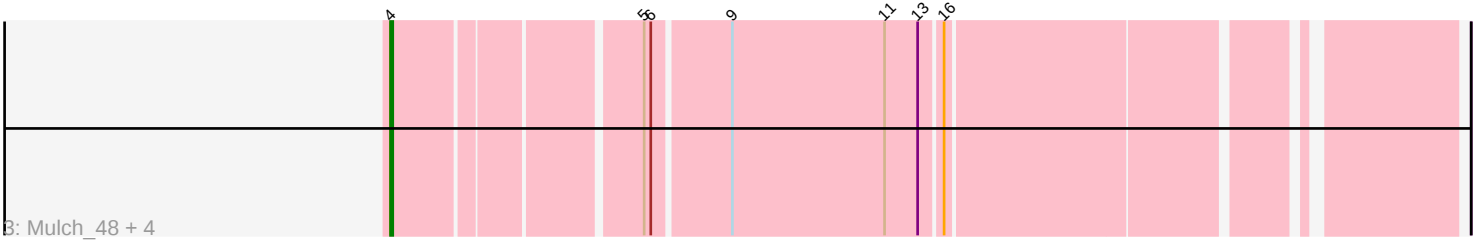
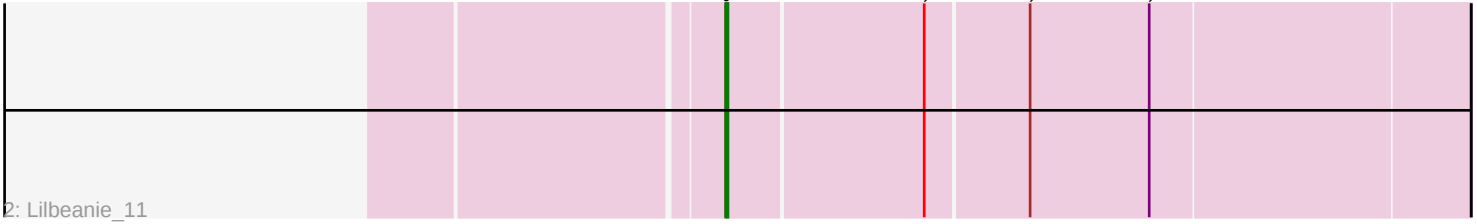
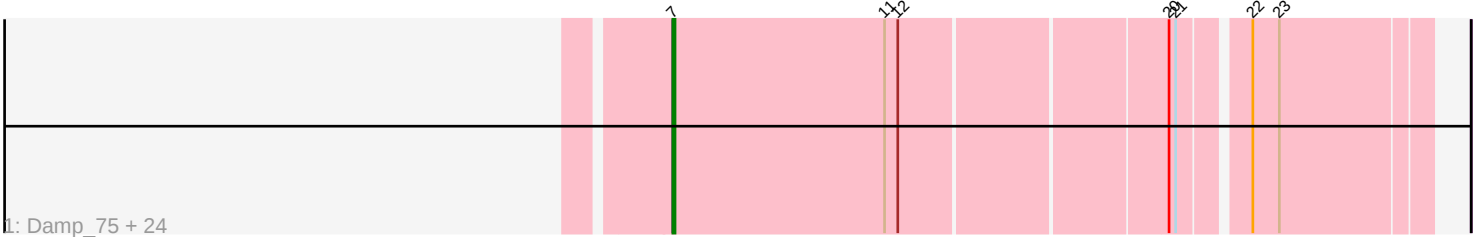


Pham 278391



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 278391 Report

This analysis was run 02/07/26 on database version 634.

Pham number 278391 has 38 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Damp_75, GalacticEye_75, Teal_74, Berries_75, Hello_74, MrWormie_75, Harambe_74, Guillaume_74, Anamika_74, Luker_76, Jams_75, Hail2Pitt_73, Kaseim_75, Newt_76, Woes_74, Neoevie_74, Charianelly_75, Lahirium_74, Jormungandr_74, Nimi13_74, Lidong_75, Minos_76, Bianmat_75, Sticker17_75, Shelley_75
- Track 2 : Lilbeanie_11
- Track 3 : Mulch_48, Pimento_49, BetterKatz_48, Brylie_48, Bock_48
- Track 4 : Ayotoya_48, Nadeem_48
- Track 5 : GrandSlam_48, Parada_48, Chop_48, Hamood_48
- Track 6 : Morgana_154

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 25 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anamika_74, Berries_75, Bianmat_75, Charianelly_75, Damp_75, GalacticEye_75, Guillaume_74, Hail2Pitt_73, Harambe_74, Hello_74, Jams_75, Jormungandr_74, Kaseim_75, Lahirium_74, Lidong_75, Luker_76, Minos_76, MrWormie_75, Neoevie_74, Newt_76, Nimi13_74, Shelley_75, Sticker17_75, Teal_74, Woes_74,

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

-

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

- Ayotoya_48, BetterKatz_48, Bock_48, Brylie_48, Chop_48, GrandSlam_48, Hamood_48, Lilbeanie_11, Morgana_154, Mulch_48, Nadeem_48, Parada_48, Pimento_49,

Summary by start number:

Start 4:

- Found in 11 of 38 (28.9%) of genes in pham

- Manual Annotations of this start: 5 of 38
- Called 45.5% of time when present
- Phage (with cluster) where this start called: BetterKatz_48 (DI), Bock_48 (DI), Brylie_48 (DI), Mulch_48 (DI), Pimento_49 (DI),

Start 5:

- Found in 11 of 38 (28.9%) of genes in pham
- Manual Annotations of this start: 2 of 38
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Ayotoya_48 (DI), Nadeem_48 (DI),

Start 6:

- Found in 11 of 38 (28.9%) of genes in pham
- Manual Annotations of this start: 4 of 38
- Called 36.4% of time when present
- Phage (with cluster) where this start called: Chop_48 (DI), GrandSlam_48 (DI), Hamood_48 (DI), Parada_48 (DI),

Start 7:

- Found in 25 of 38 (65.8%) of genes in pham
- Manual Annotations of this start: 25 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anamika_74 (CS3), Berries_75 (CS3), Bianmat_75 (CS3), Charianelly_75 (CS3), Damp_75 (CS3), GalacticEye_75 (CS3), Guillaume_74 (CS3), Hail2Pitt_73 (CS3), Harambe_74 (CS3), Hello_74 (CS3), Jams_75 (CS3), Jormungandr_74 (CS3), Kaseim_75 (CS3), Lahirium_74 (CS3), Lidong_75 (CS3), Luker_76 (CS3), Minos_76 (CS3), MrWormie_75 (CS3), Neoevie_74 (CS3), Newt_76 (CS3), Nimi13_74 (CS3), Shelley_75 (CS3), Sticker17_75 (CS3), Teal_74 (CS3), Woes_74 (CS3),

Start 8:

- Found in 1 of 38 (2.6%) 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: Lilbeanie_11 (DE5),

Start 10:

- Found in 1 of 38 (2.6%) 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: Morgana_154 (DZ),

Summary by clusters:

There are 4 clusters represented in this pham: DZ, DE5, CS3, DI,

Info for manual annotations of cluster CS3:

- Start number 7 was manually annotated 25 times for cluster CS3.

Info for manual annotations of cluster DE5:

- Start number 8 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DI:

- Start number 4 was manually annotated 5 times for cluster DI.
- Start number 5 was manually annotated 2 times for cluster DI.
- Start number 6 was manually annotated 4 times for cluster DI.

Info for manual annotations of cluster DZ:

- Start number 10 was manually annotated 1 time for cluster DZ.

Gene Information:

Gene: Anamika_74 Start: 60867, Stop: 60544, Start Num: 7

Candidate Starts for Anamika_74:

(Start: 7 @60867 has 25 MA's), (11, 60771), (12, 60765), (20, 60651), (21, 60648), (22, 60621), (23, 60609),

Gene: Ayotoya_48 Start: 35650, Stop: 35985, Start Num: 5

Candidate Starts for Ayotoya_48:

(Start: 4 @35548 has 5 MA's), (Start: 5 @35650 has 2 MA's), (Start: 6 @35653 has 4 MA's), (9, 35686), (11, 35755), (13, 35770), (16, 35779),

Gene: Berries_75 Start: 60839, Stop: 60516, Start Num: 7

Candidate Starts for Berries_75:

(Start: 7 @60839 has 25 MA's), (11, 60743), (12, 60737), (20, 60623), (21, 60620), (22, 60593), (23, 60581),

Gene: BetterKatz_48 Start: 35022, Stop: 35471, Start Num: 4

Candidate Starts for BetterKatz_48:

(Start: 4 @35022 has 5 MA's), (Start: 5 @35124 has 2 MA's), (Start: 6 @35127 has 4 MA's), (9, 35160), (11, 35229), (13, 35244), (16, 35253),

Gene: Bianmat_75 Start: 60879, Stop: 60556, Start Num: 7

Candidate Starts for Bianmat_75:

(Start: 7 @60879 has 25 MA's), (11, 60783), (12, 60777), (20, 60663), (21, 60660), (22, 60633), (23, 60621),

Gene: Bock_48 Start: 34771, Stop: 35208, Start Num: 4

Candidate Starts for Bock_48:

(Start: 4 @34771 has 5 MA's), (Start: 5 @34873 has 2 MA's), (Start: 6 @34876 has 4 MA's), (9, 34909), (11, 34978), (13, 34993), (16, 35002),

Gene: Brylie_48 Start: 34818, Stop: 35255, Start Num: 4

Candidate Starts for Brylie_48:

(Start: 4 @34818 has 5 MA's), (Start: 5 @34920 has 2 MA's), (Start: 6 @34923 has 4 MA's), (9, 34956), (11, 35025), (13, 35040), (16, 35049),

Gene: Charianelly_75 Start: 60589, Stop: 60266, Start Num: 7

Candidate Starts for Charianelly_75:

(Start: 7 @60589 has 25 MA's), (11, 60493), (12, 60487), (20, 60373), (21, 60370), (22, 60343), (23, 60331),

Gene: Chop_48 Start: 35400, Stop: 35738, Start Num: 6

Candidate Starts for Chop_48:

(Start: 4 @35295 has 5 MA's), (Start: 5 @35397 has 2 MA's), (Start: 6 @35400 has 4 MA's), (9, 35433), (11, 35502), (13, 35517), (16, 35526),

Gene: Damp_75 Start: 59753, Stop: 59430, Start Num: 7

Candidate Starts for Damp_75:

(Start: 7 @59753 has 25 MA's), (11, 59657), (12, 59651), (20, 59537), (21, 59534), (22, 59507), (23, 59495),

Gene: GalacticEye_75 Start: 60550, Stop: 60227, Start Num: 7

Candidate Starts for GalacticEye_75:

(Start: 7 @60550 has 25 MA's), (11, 60454), (12, 60448), (20, 60334), (21, 60331), (22, 60304), (23, 60292),

Gene: GrandSlam_48 Start: 35400, Stop: 35738, Start Num: 6

Candidate Starts for GrandSlam_48:

(Start: 4 @35295 has 5 MA's), (Start: 5 @35397 has 2 MA's), (Start: 6 @35400 has 4 MA's), (9, 35433), (11, 35502), (13, 35517), (16, 35526),

Gene: Guillaume_74 Start: 60600, Stop: 60277, Start Num: 7

Candidate Starts for Guillaume_74:

(Start: 7 @60600 has 25 MA's), (11, 60504), (12, 60498), (20, 60384), (21, 60381), (22, 60354), (23, 60342),

Gene: Hail2Pitt_73 Start: 61076, Stop: 60753, Start Num: 7

Candidate Starts for Hail2Pitt_73:

(Start: 7 @61076 has 25 MA's), (11, 60980), (12, 60974), (20, 60860), (21, 60857), (22, 60830), (23, 60818),

Gene: Hamood_48 Start: 35400, Stop: 35738, Start Num: 6

Candidate Starts for Hamood_48:

(Start: 4 @35295 has 5 MA's), (Start: 5 @35397 has 2 MA's), (Start: 6 @35400 has 4 MA's), (9, 35433), (11, 35502), (13, 35517), (16, 35526),

Gene: Harambe_74 Start: 60867, Stop: 60544, Start Num: 7

Candidate Starts for Harambe_74:

(Start: 7 @60867 has 25 MA's), (11, 60771), (12, 60765), (20, 60651), (21, 60648), (22, 60621), (23, 60609),

Gene: Hello_74 Start: 60829, Stop: 60506, Start Num: 7

Candidate Starts for Hello_74:

(Start: 7 @60829 has 25 MA's), (11, 60733), (12, 60727), (20, 60613), (21, 60610), (22, 60583), (23, 60571),

Gene: Jams_75 Start: 60039, Stop: 59716, Start Num: 7

Candidate Starts for Jams_75:

(Start: 7 @60039 has 25 MA's), (11, 59943), (12, 59937), (20, 59823), (21, 59820), (22, 59793), (23, 59781),

Gene: Jormungandr_74 Start: 60582, Stop: 60259, Start Num: 7

Candidate Starts for Jormungandr_74:

(Start: 7 @60582 has 25 MA's), (11, 60486), (12, 60480), (20, 60366), (21, 60363), (22, 60336), (23, 60324),

Gene: Kaseim_75 Start: 60024, Stop: 59701, Start Num: 7
Candidate Starts for Kaseim_75:
(Start: 7 @60024 has 25 MA's), (11, 59928), (12, 59922), (20, 59808), (21, 59805), (22, 59778), (23, 59766),

Gene: Lahirium_74 Start: 61104, Stop: 60781, Start Num: 7
Candidate Starts for Lahirium_74:
(Start: 7 @61104 has 25 MA's), (11, 61008), (12, 61002), (20, 60888), (21, 60885), (22, 60858), (23, 60846),

Gene: Lidong_75 Start: 60839, Stop: 60516, Start Num: 7
Candidate Starts for Lidong_75:
(Start: 7 @60839 has 25 MA's), (11, 60743), (12, 60737), (20, 60623), (21, 60620), (22, 60593), (23, 60581),

Gene: Lilbeanie_11 Start: 4525, Stop: 4851, Start Num: 8
Candidate Starts for Lilbeanie_11:
(Start: 8 @4525 has 1 MA's), (14, 4612), (18, 4657), (19, 4711),

Gene: Luker_76 Start: 61057, Stop: 60734, Start Num: 7
Candidate Starts for Luker_76:
(Start: 7 @61057 has 25 MA's), (11, 60961), (12, 60955), (20, 60841), (21, 60838), (22, 60811), (23, 60799),

Gene: Minos_76 Start: 60581, Stop: 60258, Start Num: 7
Candidate Starts for Minos_76:
(Start: 7 @60581 has 25 MA's), (11, 60485), (12, 60479), (20, 60365), (21, 60362), (22, 60335), (23, 60323),

Gene: Morgana_154 Start: 78675, Stop: 78376, Start Num: 10
Candidate Starts for Morgana_154:
(1, 78987), (2, 78861), (3, 78852), (Start: 10 @78675 has 1 MA's), (15, 78600), (16, 78594), (17, 78576), (24, 78381),

Gene: MrWormie_75 Start: 59742, Stop: 59419, Start Num: 7
Candidate Starts for MrWormie_75:
(Start: 7 @59742 has 25 MA's), (11, 59646), (12, 59640), (20, 59526), (21, 59523), (22, 59496), (23, 59484),

Gene: Mulch_48 Start: 34818, Stop: 35255, Start Num: 4
Candidate Starts for Mulch_48:
(Start: 4 @34818 has 5 MA's), (Start: 5 @34920 has 2 MA's), (Start: 6 @34923 has 4 MA's), (9, 34956), (11, 35025), (13, 35040), (16, 35049),

Gene: Nadeem_48 Start: 34920, Stop: 35255, Start Num: 5
Candidate Starts for Nadeem_48:
(Start: 4 @34818 has 5 MA's), (Start: 5 @34920 has 2 MA's), (Start: 6 @34923 has 4 MA's), (9, 34956), (11, 35025), (13, 35040), (16, 35049),

Gene: Neoevie_74 Start: 60843, Stop: 60520, Start Num: 7
Candidate Starts for Neoevie_74:
(Start: 7 @60843 has 25 MA's), (11, 60747), (12, 60741), (20, 60627), (21, 60624), (22, 60597), (23, 60585),

Gene: Newt_76 Start: 61071, Stop: 60748, Start Num: 7

Candidate Starts for Newt_76:

(Start: 7 @61071 has 25 MA's), (11, 60975), (12, 60969), (20, 60855), (21, 60852), (22, 60825), (23, 60813),

Gene: Nimi13_74 Start: 60590, Stop: 60267, Start Num: 7

Candidate Starts for Nimi13_74:

(Start: 7 @60590 has 25 MA's), (11, 60494), (12, 60488), (20, 60374), (21, 60371), (22, 60344), (23, 60332),

Gene: Parada_48 Start: 34923, Stop: 35255, Start Num: 6

Candidate Starts for Parada_48:

(Start: 4 @34818 has 5 MA's), (Start: 5 @34920 has 2 MA's), (Start: 6 @34923 has 4 MA's), (9, 34956), (11, 35025), (13, 35040), (16, 35049),

Gene: Pimento_49 Start: 34409, Stop: 34852, Start Num: 4

Candidate Starts for Pimento_49:

(Start: 4 @34409 has 5 MA's), (Start: 5 @34511 has 2 MA's), (Start: 6 @34514 has 4 MA's), (9, 34547), (11, 34616), (13, 34631), (16, 34640),

Gene: Shelley_75 Start: 60066, Stop: 59743, Start Num: 7

Candidate Starts for Shelley_75:

(Start: 7 @60066 has 25 MA's), (11, 59970), (12, 59964), (20, 59850), (21, 59847), (22, 59820), (23, 59808),

Gene: Sticker17_75 Start: 60554, Stop: 60231, Start Num: 7

Candidate Starts for Sticker17_75:

(Start: 7 @60554 has 25 MA's), (11, 60458), (12, 60452), (20, 60338), (21, 60335), (22, 60308), (23, 60296),

Gene: Teal_74 Start: 61048, Stop: 60725, Start Num: 7

Candidate Starts for Teal_74:

(Start: 7 @61048 has 25 MA's), (11, 60952), (12, 60946), (20, 60832), (21, 60829), (22, 60802), (23, 60790),

Gene: Woes_74 Start: 61099, Stop: 60776, Start Num: 7

Candidate Starts for Woes_74:

(Start: 7 @61099 has 25 MA's), (11, 61003), (12, 60997), (20, 60883), (21, 60880), (22, 60853), (23, 60841),