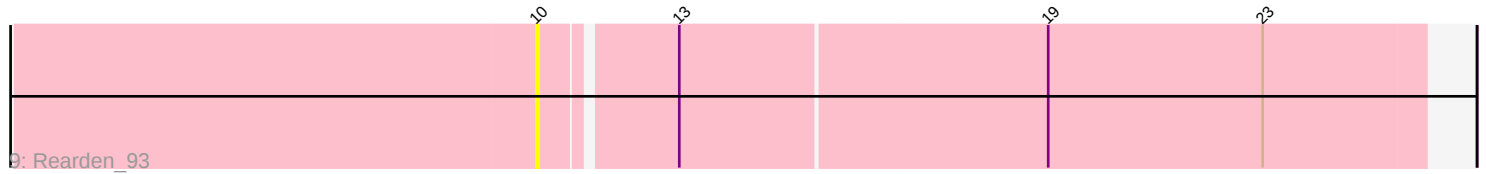
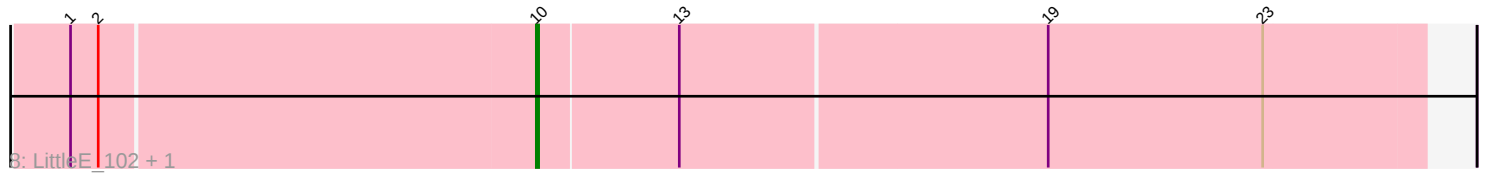
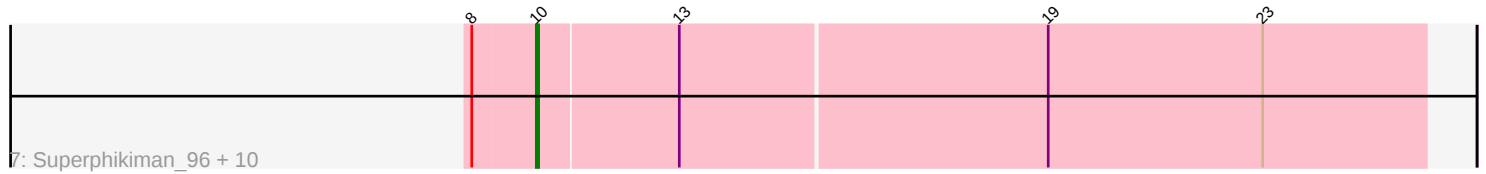
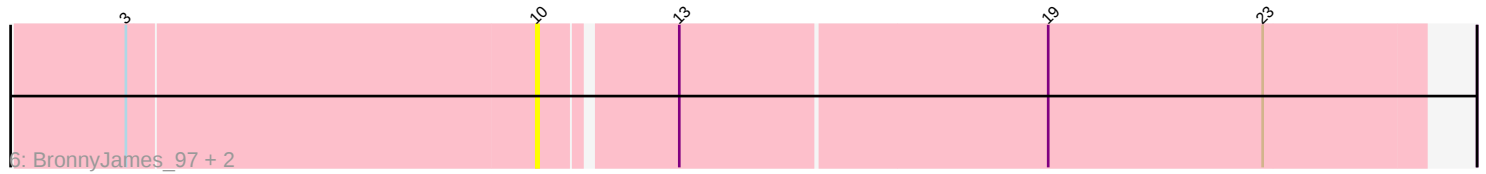
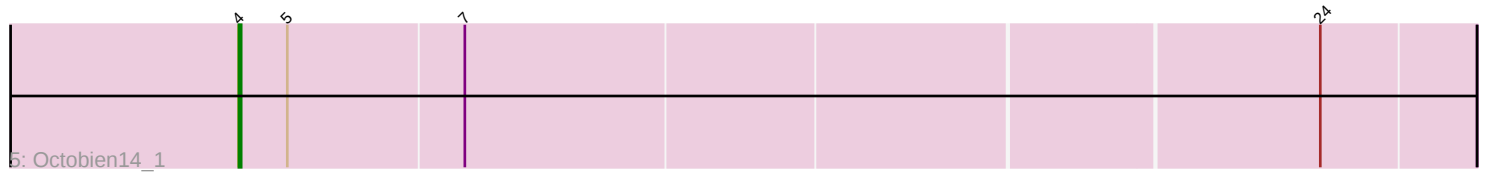
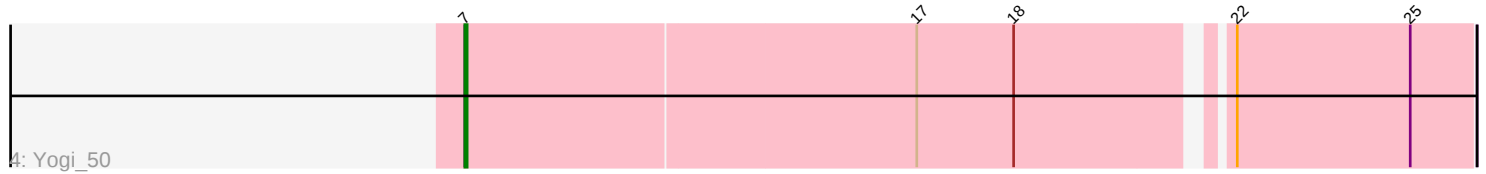
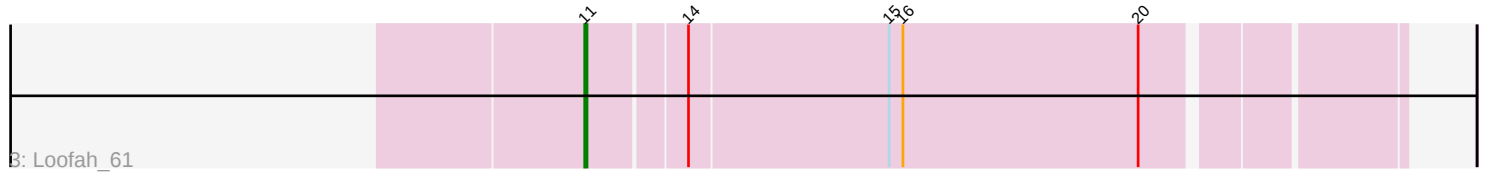
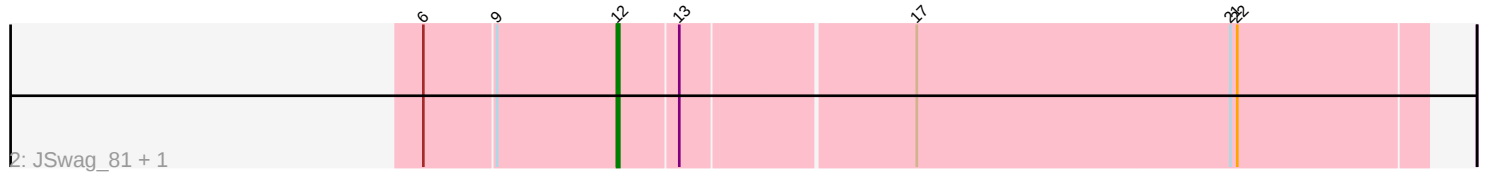
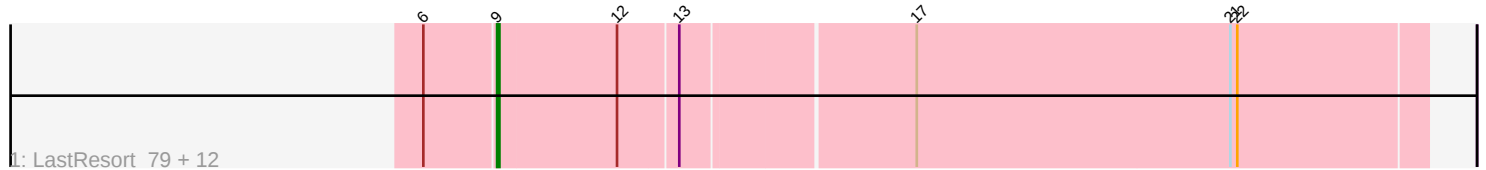


Pham 331061



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 331061 Report

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

Pham number 331061 has 35 members, 6 are drafts.

Phages represented in each track:

- Track 1 : LastResort_79, Boohoo_81, Epsocamisio_78, DekHockey33_82, KatherineG_81, Battleship_83, Looper_80, ReMo_79, Nebulosus_78, Switzerland_80, ShayRa_81, Rosalind_79, Anaysia_81
- Track 2 : JSwag_81, MinecraftSteve_81
- Track 3 : Loofah_61
- Track 4 : Yogi_50
- Track 5 : Octobien14_1
- Track 6 : BronnyJames_97, Shaboozey_97, Nibley_92
- Track 7 : Superphikiman_96, Courthouse_94, MiaZeal_99, Gonephishing_91, Nekros_101, Squint_97, Lucky2013_96, Porcelain_97, Hannaconda_90, Ariel_98, Omega_108
- Track 8 : LittleE_102, KashFlow_94
- Track 9 : Rearden_93

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

The start number called the most often in the published annotations is 9, it was called in 13 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anaysia_81, Battleship_83, Boohoo_81, DekHockey33_82, Epsocamisio_78, KatherineG_81, LastResort_79, Looper_80, Nebulosus_78, ReMo_79, Rosalind_79, ShayRa_81, Switzerland_80,

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

- JSwag_81, MinecraftSteve_81,

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

- Ariel_98, BronnyJames_97, Courthouse_94, Gonephishing_91, Hannaconda_90, KashFlow_94, LittleE_102, Loofah_61, Lucky2013_96, MiaZeal_99, Nekros_101, Nibley_92, Octobien14_1, Omega_108, Porcelain_97, Rearden_93, Shaboozey_97, Squint_97, Superphikiman_96, Yogi_50,

Summary by start number:

Start 4:

- Found in 1 of 35 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Octobien14_1 (DU1),

Start 7:

- Found in 2 of 35 (5.7%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Yogi_50 (CA),

Start 9:

- Found in 15 of 35 (42.9%) of genes in pham
- Manual Annotations of this start: 13 of 29
- Called 86.7% of time when present
- Phage (with cluster) where this start called: Anaysia_81 (A15), Battleship_83 (A15), Boohoo_81 (A15), DekHockey33_82 (A15), Epsocamisio_78 (A15), KatherineG_81 (A15), LastResort_79 (A15), Looper_80 (A15), Nebulosus_78 (A15), ReMo_79 (A15), Rosalind_79 (A15), ShayRa_81 (A15), Switzerland_80 (A15),

Start 10:

- Found in 17 of 35 (48.6%) of genes in pham
- Manual Annotations of this start: 11 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_98 (J), BronnyJames_97 (J), Courthouse_94 (J), Gonephishing_91 (J), Hannaconda_90 (J), KashFlow_94 (J), LittleE_102 (J), Lucky2013_96 (J), MiaZeal_99 (J), Nekros_101 (J), Nibley_92 (J), Omega_108 (J), Porcelain_97 (J), Rearden_93 (J), Shaboozey_97 (J), Squint_97 (J), Superphikiman_96 (J),

Start 11:

- Found in 1 of 35 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Loofah_61 (BD2),

Start 12:

- Found in 15 of 35 (42.9%) of genes in pham
- Manual Annotations of this start: 2 of 29
- Called 13.3% of time when present
- Phage (with cluster) where this start called: JSwag_81 (A15), MinecraftSteve_81 (A15),

Summary by clusters:

There are 5 clusters represented in this pham: A15, DU1, CA, J, BD2,

Info for manual annotations of cluster A15:

- Start number 9 was manually annotated 13 times for cluster A15.
- Start number 12 was manually annotated 2 times for cluster A15.

Info for manual annotations of cluster BD2:

- Start number 11 was manually annotated 1 time for cluster BD2.

Info for manual annotations of cluster CA:

- Start number 7 was manually annotated 1 time for cluster CA.

Info for manual annotations of cluster DU1:

- Start number 4 was manually annotated 1 time for cluster DU1.

Info for manual annotations of cluster J:

- Start number 10 was manually annotated 11 times for cluster J.

Gene Information:

Gene: Anaysia_81 Start: 44115, Stop: 43726, Start Num: 9

Candidate Starts for Anaysia_81:

(6, 44145), (Start: 9 @44115 has 13 MA's), (Start: 12 @44064 has 2 MA's), (13, 44040), (17, 43944), (21, 43809), (22, 43806),

Gene: Ariel_98 Start: 56193, Stop: 56570, Start Num: 10

Candidate Starts for Ariel_98:

(8, 56166), (Start: 10 @56193 has 11 MA's), (13, 56253), (19, 56409), (23, 56502),

Gene: Battleship_83 Start: 43988, Stop: 43599, Start Num: 9

Candidate Starts for Battleship_83:

(6, 44018), (Start: 9 @43988 has 13 MA's), (Start: 12 @43937 has 2 MA's), (13, 43913), (17, 43817), (21, 43682), (22, 43679),

Gene: Boohoo_81 Start: 44115, Stop: 43726, Start Num: 9

Candidate Starts for Boohoo_81:

(6, 44145), (Start: 9 @44115 has 13 MA's), (Start: 12 @44064 has 2 MA's), (13, 44040), (17, 43944), (21, 43809), (22, 43806),

Gene: BronnyJames_97 Start: 56672, Stop: 57043, Start Num: 10

Candidate Starts for BronnyJames_97:

(3, 56498), (Start: 10 @56672 has 11 MA's), (13, 56726), (19, 56882), (23, 56975),

Gene: Courthouse_94 Start: 55793, Stop: 56170, Start Num: 10

Candidate Starts for Courthouse_94:

(8, 55766), (Start: 10 @55793 has 11 MA's), (13, 55853), (19, 56009), (23, 56102),

Gene: DekHockey33_82 Start: 44073, Stop: 43684, Start Num: 9

Candidate Starts for DekHockey33_82:

(6, 44103), (Start: 9 @44073 has 13 MA's), (Start: 12 @44022 has 2 MA's), (13, 43998), (17, 43902), (21, 43767), (22, 43764),

Gene: Epsocamisio_78 Start: 43363, Stop: 42974, Start Num: 9

Candidate Starts for Epsocamisio_78:

(6, 43393), (Start: 9 @43363 has 13 MA's), (Start: 12 @43312 has 2 MA's), (13, 43288), (17, 43192), (21, 43057), (22, 43054),

Gene: Gonephishing_91 Start: 55351, Stop: 55728, Start Num: 10
Candidate Starts for Gonephishing_91:
(8, 55324), (Start: 10 @55351 has 11 MA's), (13, 55411), (19, 55567), (23, 55660),

Gene: Hannaconda_90 Start: 54744, Stop: 55121, Start Num: 10
Candidate Starts for Hannaconda_90:
(8, 54717), (Start: 10 @54744 has 11 MA's), (13, 54804), (19, 54960), (23, 55053),

Gene: JSwag_81 Start: 43597, Stop: 43259, Start Num: 12
Candidate Starts for JSwag_81:
(6, 43678), (Start: 9 @43648 has 13 MA's), (Start: 12 @43597 has 2 MA's), (13, 43573), (17, 43477),
(21, 43342), (22, 43339),

Gene: KashFlow_94 Start: 56308, Stop: 56685, Start Num: 10
Candidate Starts for KashFlow_94:
(1, 56110), (2, 56122), (Start: 10 @56308 has 11 MA's), (13, 56368), (19, 56524), (23, 56617),

Gene: KatherineG_81 Start: 43960, Stop: 43571, Start Num: 9
Candidate Starts for KatherineG_81:
(6, 43990), (Start: 9 @43960 has 13 MA's), (Start: 12 @43909 has 2 MA's), (13, 43885), (17, 43789),
(21, 43654), (22, 43651),

Gene: LastResort_79 Start: 43891, Stop: 43502, Start Num: 9
Candidate Starts for LastResort_79:
(6, 43921), (Start: 9 @43891 has 13 MA's), (Start: 12 @43840 has 2 MA's), (13, 43816), (17, 43720),
(21, 43585), (22, 43582),

Gene: LittleE_102 Start: 59886, Stop: 60263, Start Num: 10
Candidate Starts for LittleE_102:
(1, 59688), (2, 59700), (Start: 10 @59886 has 11 MA's), (13, 59946), (19, 60102), (23, 60195),

Gene: Loofah_61 Start: 41684, Stop: 41352, Start Num: 11
Candidate Starts for Loofah_61:
(Start: 11 @41684 has 1 MA's), (14, 41645), (15, 41561), (16, 41555), (20, 41453),

Gene: Looper_80 Start: 43803, Stop: 43414, Start Num: 9
Candidate Starts for Looper_80:
(6, 43833), (Start: 9 @43803 has 13 MA's), (Start: 12 @43752 has 2 MA's), (13, 43728), (17, 43632),
(21, 43497), (22, 43494),

Gene: Lucky2013_96 Start: 56209, Stop: 56586, Start Num: 10
Candidate Starts for Lucky2013_96:
(8, 56182), (Start: 10 @56209 has 11 MA's), (13, 56269), (19, 56425), (23, 56518),

Gene: MiaZeal_99 Start: 56865, Stop: 57242, Start Num: 10
Candidate Starts for MiaZeal_99:
(8, 56838), (Start: 10 @56865 has 11 MA's), (13, 56925), (19, 57081), (23, 57174),

Gene: MinecraftSteve_81 Start: 43733, Stop: 43395, Start Num: 12
Candidate Starts for MinecraftSteve_81:
(6, 43814), (Start: 9 @43784 has 13 MA's), (Start: 12 @43733 has 2 MA's), (13, 43709), (17, 43613),
(21, 43478), (22, 43475),

Gene: Nebulosus_78 Start: 43448, Stop: 43059, Start Num: 9

Candidate Starts for Nebulosus_78:

(6, 43478), (Start: 9 @43448 has 13 MA's), (Start: 12 @43397 has 2 MA's), (13, 43373), (17, 43277), (21, 43142), (22, 43139),

Gene: Nekros_101 Start: 59821, Stop: 60198, Start Num: 10

Candidate Starts for Nekros_101:

(8, 59794), (Start: 10 @59821 has 11 MA's), (13, 59881), (19, 60037), (23, 60130),

Gene: Nibley_92 Start: 56249, Stop: 56620, Start Num: 10

Candidate Starts for Nibley_92:

(3, 56075), (Start: 10 @56249 has 11 MA's), (13, 56303), (19, 56459), (23, 56552),

Gene: Octobien14_1 Start: 652, Stop: 131, Start Num: 4

Candidate Starts for Octobien14_1:

(Start: 4 @652 has 1 MA's), (5, 631), (Start: 7 @556 has 1 MA's), (24, 196),

Gene: Omega_108 Start: 61662, Stop: 62039, Start Num: 10

Candidate Starts for Omega_108:

(8, 61635), (Start: 10 @61662 has 11 MA's), (13, 61722), (19, 61878), (23, 61971),

Gene: Porcelain_97 Start: 56865, Stop: 57242, Start Num: 10

Candidate Starts for Porcelain_97:

(8, 56838), (Start: 10 @56865 has 11 MA's), (13, 56925), (19, 57081), (23, 57174),

Gene: ReMo_79 Start: 43888, Stop: 43499, Start Num: 9

Candidate Starts for ReMo_79:

(6, 43918), (Start: 9 @43888 has 13 MA's), (Start: 12 @43837 has 2 MA's), (13, 43813), (17, 43717), (21, 43582), (22, 43579),

Gene: Rearden_93 Start: 57048, Stop: 57419, Start Num: 10

Candidate Starts for Rearden_93:

(Start: 10 @57048 has 11 MA's), (13, 57102), (19, 57258), (23, 57351),

Gene: Rosalind_79 Start: 43712, Stop: 43323, Start Num: 9

Candidate Starts for Rosalind_79:

(6, 43742), (Start: 9 @43712 has 13 MA's), (Start: 12 @43661 has 2 MA's), (13, 43637), (17, 43541), (21, 43406), (22, 43403),

Gene: Shaboozey_97 Start: 56693, Stop: 57064, Start Num: 10

Candidate Starts for Shaboozey_97:

(3, 56519), (Start: 10 @56693 has 11 MA's), (13, 56747), (19, 56903), (23, 56996),

Gene: ShayRa_81 Start: 43741, Stop: 43352, Start Num: 9

Candidate Starts for ShayRa_81:

(6, 43771), (Start: 9 @43741 has 13 MA's), (Start: 12 @43690 has 2 MA's), (13, 43666), (17, 43570), (21, 43435), (22, 43432),

Gene: Squint_97 Start: 56984, Stop: 57361, Start Num: 10

Candidate Starts for Squint_97:

(8, 56957), (Start: 10 @56984 has 11 MA's), (13, 57044), (19, 57200), (23, 57293),

Gene: Superphikiman_96 Start: 56075, Stop: 56452, Start Num: 10

Candidate Starts for Superphikiman_96:

(8, 56048), (Start: 10 @56075 has 11 MA's), (13, 56135), (19, 56291), (23, 56384),

Gene: Switzerland_80 Start: 43880, Stop: 43491, Start Num: 9

Candidate Starts for Switzerland_80:

(6, 43910), (Start: 9 @43880 has 13 MA's), (Start: 12 @43829 has 2 MA's), (13, 43805), (17, 43709),
(21, 43574), (22, 43571),

Gene: Yogi_50 Start: 36746, Stop: 36330, Start Num: 7

Candidate Starts for Yogi_50:

(Start: 7 @36746 has 1 MA's), (17, 36554), (18, 36512), (22, 36431), (25, 36356),