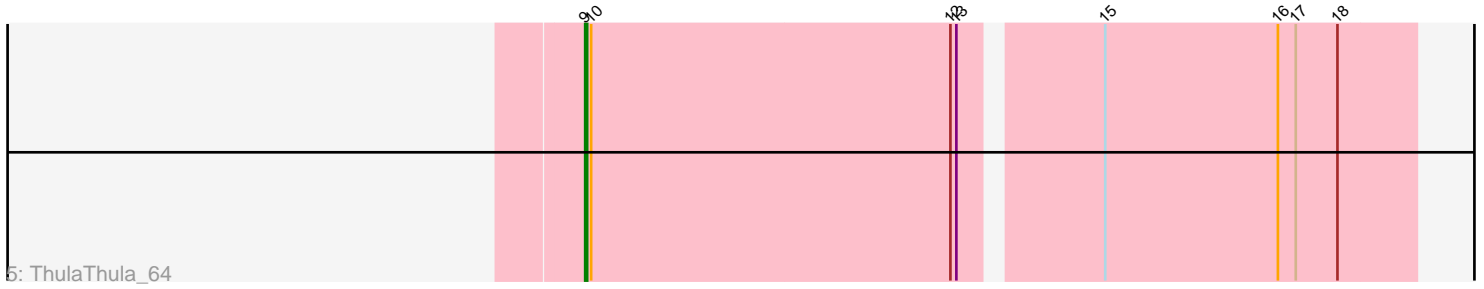
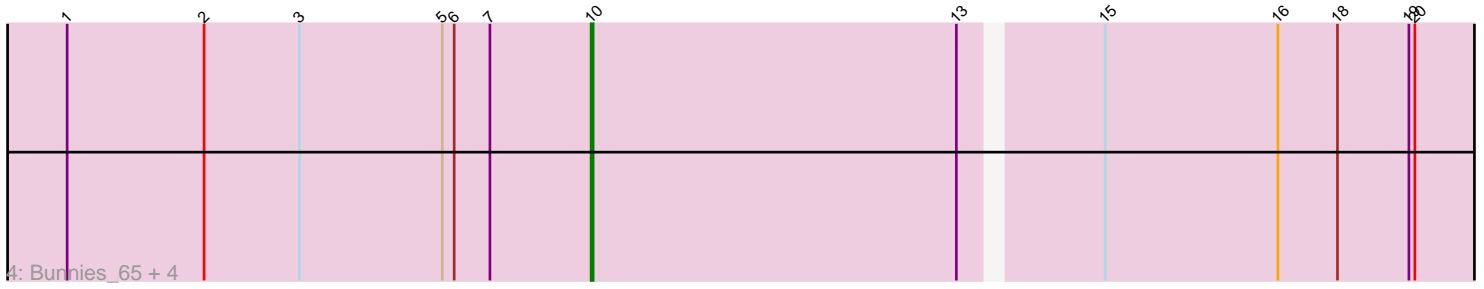
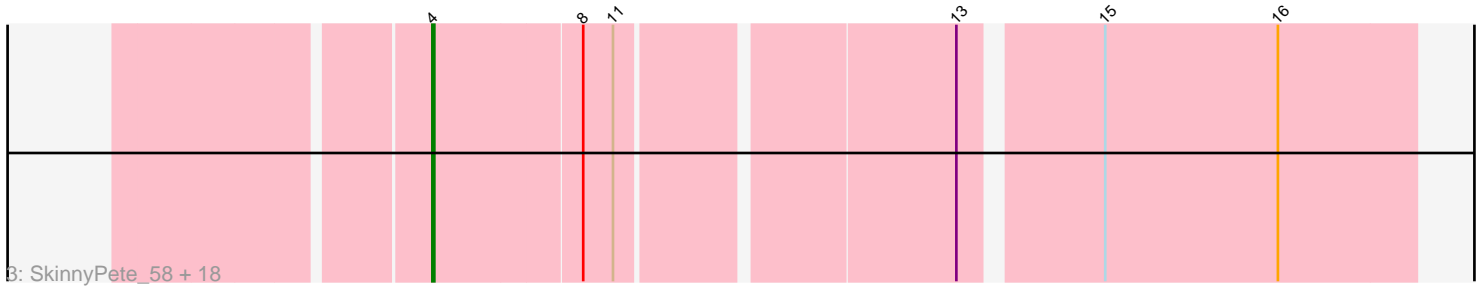
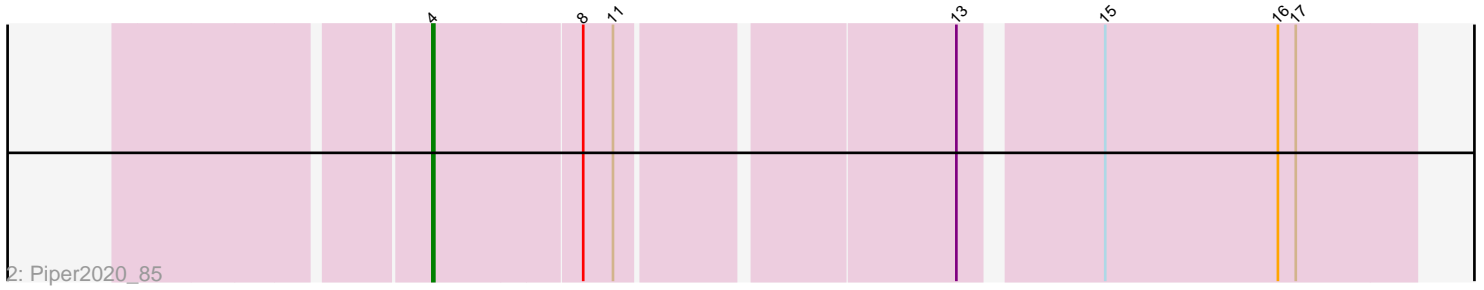
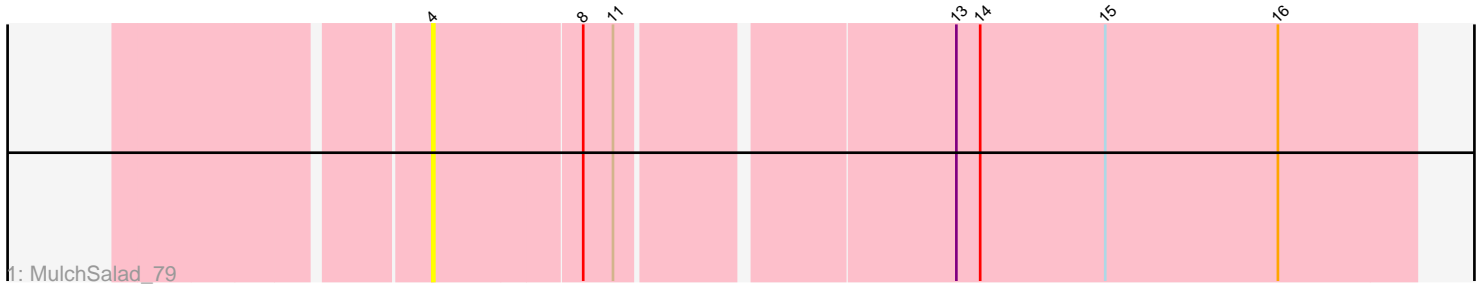


Pham 158112



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 158112 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158112 has 27 members, 3 are drafts.

Phages represented in each track:

- Track 1 : MulchSalad_79
- Track 2 : Piper2020_85
- Track 3 : SkinnyPete_58, Fulbright_59, Melville_66, Xerxes_61, Duplicity_59, Magsby_60, Phloss_59, Philonius_61, Chewbacca_64, FirstPlacePfu_63, Schnauzer_62, Pipsqueaks_62, Parmesanjohn_61, Smurph_61, Aggie_57, Silvafighter_63, Carcharodon_61, Silvy_62, Gex_62
- Track 4 : Bunnies_65, CactusJack_60, KilKor_60, Phalm_60, Glaske_59
- Track 5 : ThulaThula_64

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

The start number called the most often in the published annotations is 4, it was called in 18 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aggie_57, Carcharodon_61, Chewbacca_64, Duplicity_59, FirstPlacePfu_63, Fulbright_59, Gex_62, Magsby_60, Melville_66, MulchSalad_79, Parmesanjohn_61, Philonius_61, Phloss_59, Piper2020_85, Pipsqueaks_62, Schnauzer_62, Silvafighter_63, Silvy_62, SkinnyPete_58, Smurph_61, Xerxes_61,

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

-

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

- Bunnies_65, CactusJack_60, Glaske_59, KilKor_60, Phalm_60, ThulaThula_64,

Summary by start number:

Start 4:

- Found in 21 of 27 (77.8%) of genes in pham
- Manual Annotations of this start: 18 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aggie_57 (N), Carcharodon_61 (N), Chewbacca_64 (N), Duplicity_59 (N), FirstPlacePfu_63 (P1), Fulbright_59 (N),

Gex_62 (N), Magsby_60 (N), Melville_66 (N), MulchSalad_79 (F), Parmesanjohn_61 (N), Philonius_61 (N), Phloss_59 (N), Piper2020_85 (F1), Pipsqueaks_62 (N), Schnauzer_62 (N), Silvafighter_63 (N), Silvy_62 (N), SkinnyPete_58 (N), Smurph_61 (N), Xerxes_61 (N),

Start 9:

- Found in 1 of 27 (3.7%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ThulaThula_64 (P5),

Start 10:

- Found in 6 of 27 (22.2%) of genes in pham
- Manual Annotations of this start: 5 of 24
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Bunnies_65 (P1), CactusJack_60 (P1), Glaske_59 (P1), KilKor_60 (P1), Phalm_60 (P1),

Summary by clusters:

There are 5 clusters represented in this pham: F1, F, P1, P5, N,

Info for manual annotations of cluster F1:

- Start number 4 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster N:

- Start number 4 was manually annotated 16 times for cluster N.

Info for manual annotations of cluster P1:

- Start number 4 was manually annotated 1 time for cluster P1.
- Start number 10 was manually annotated 5 times for cluster P1.

Info for manual annotations of cluster P5:

- Start number 9 was manually annotated 1 time for cluster P5.

Gene Information:

Gene: Aggie_57 Start: 39395, Stop: 39856, Start Num: 4

Candidate Starts for Aggie_57:

(Start: 4 @39395 has 18 MA's), (8, 39467), (11, 39482), (13, 39641), (15, 39704), (16, 39791),

Gene: Bunnies_65 Start: 41638, Stop: 42144, Start Num: 10

Candidate Starts for Bunnies_65:

(1, 41374), (2, 41443), (3, 41491), (5, 41563), (6, 41569), (7, 41587), (Start: 10 @41638 has 5 MA's), (13, 41821), (15, 41884), (16, 41971), (18, 42001), (19, 42037), (20, 42040),

Gene: CactusJack_60 Start: 40506, Stop: 41012, Start Num: 10

Candidate Starts for CactusJack_60:

(1, 40242), (2, 40311), (3, 40359), (5, 40431), (6, 40437), (7, 40455), (Start: 10 @40506 has 5 MA's), (13, 40689), (15, 40752), (16, 40839), (18, 40869), (19, 40905), (20, 40908),

Gene: Carcharodon_61 Start: 38739, Stop: 39203, Start Num: 4
Candidate Starts for Carcharodon_61:
(Start: 4 @38739 has 18 MA's), (8, 38811), (11, 38826), (13, 38985), (15, 39048), (16, 39135),

Gene: Chewbacca_64 Start: 38634, Stop: 39098, Start Num: 4
Candidate Starts for Chewbacca_64:
(Start: 4 @38634 has 18 MA's), (8, 38706), (11, 38721), (13, 38880), (15, 38943), (16, 39030),

Gene: Duplicity_59 Start: 37996, Stop: 38460, Start Num: 4
Candidate Starts for Duplicity_59:
(Start: 4 @37996 has 18 MA's), (8, 38068), (11, 38083), (13, 38242), (15, 38305), (16, 38392),

Gene: FirstPlacePfu_63 Start: 38539, Stop: 39003, Start Num: 4
Candidate Starts for FirstPlacePfu_63:
(Start: 4 @38539 has 18 MA's), (8, 38611), (11, 38626), (13, 38785), (15, 38848), (16, 38935),

Gene: Fulbright_59 Start: 37433, Stop: 37897, Start Num: 4
Candidate Starts for Fulbright_59:
(Start: 4 @37433 has 18 MA's), (8, 37505), (11, 37520), (13, 37679), (15, 37742), (16, 37829),

Gene: Gex_62 Start: 38755, Stop: 39219, Start Num: 4
Candidate Starts for Gex_62:
(Start: 4 @38755 has 18 MA's), (8, 38827), (11, 38842), (13, 39001), (15, 39064), (16, 39151),

Gene: Glaske_59 Start: 40506, Stop: 41012, Start Num: 10
Candidate Starts for Glaske_59:
(1, 40242), (2, 40311), (3, 40359), (5, 40431), (6, 40437), (7, 40455), (Start: 10 @40506 has 5 MA's),
(13, 40689), (15, 40752), (16, 40839), (18, 40869), (19, 40905), (20, 40908),

Gene: KilKor_60 Start: 41199, Stop: 41705, Start Num: 10
Candidate Starts for KilKor_60:
(1, 40935), (2, 41004), (3, 41052), (5, 41124), (6, 41130), (7, 41148), (Start: 10 @41199 has 5 MA's),
(13, 41382), (15, 41445), (16, 41532), (18, 41562), (19, 41598), (20, 41601),

Gene: Magsby_60 Start: 38701, Stop: 39165, Start Num: 4
Candidate Starts for Magsby_60:
(Start: 4 @38701 has 18 MA's), (8, 38773), (11, 38788), (13, 38947), (15, 39010), (16, 39097),

Gene: Melville_66 Start: 38310, Stop: 38774, Start Num: 4
Candidate Starts for Melville_66:
(Start: 4 @38310 has 18 MA's), (8, 38382), (11, 38397), (13, 38556), (15, 38619), (16, 38706),

Gene: MulchSalad_79 Start: 47746, Stop: 48222, Start Num: 4
Candidate Starts for MulchSalad_79:
(Start: 4 @47746 has 18 MA's), (8, 47818), (11, 47833), (13, 47992), (14, 48004), (15, 48067), (16,
48154),

Gene: Parmesanjohn_61 Start: 38759, Stop: 39223, Start Num: 4
Candidate Starts for Parmesanjohn_61:
(Start: 4 @38759 has 18 MA's), (8, 38831), (11, 38846), (13, 39005), (15, 39068), (16, 39155),

Gene: Phalm_60 Start: 40506, Stop: 41012, Start Num: 10

Candidate Starts for Phalm_60:

(1, 40242), (2, 40311), (3, 40359), (5, 40431), (6, 40437), (7, 40455), (Start: 10 @40506 has 5 MA's), (13, 40689), (15, 40752), (16, 40839), (18, 40869), (19, 40905), (20, 40908),

Gene: Philonius_61 Start: 38924, Stop: 39388, Start Num: 4

Candidate Starts for Philonius_61:

(Start: 4 @38924 has 18 MA's), (8, 38996), (11, 39011), (13, 39170), (15, 39233), (16, 39320),

Gene: Phloss_59 Start: 38166, Stop: 38630, Start Num: 4

Candidate Starts for Phloss_59:

(Start: 4 @38166 has 18 MA's), (8, 38238), (11, 38253), (13, 38412), (15, 38475), (16, 38562),

Gene: Piper2020_85 Start: 51523, Stop: 51987, Start Num: 4

Candidate Starts for Piper2020_85:

(Start: 4 @51523 has 18 MA's), (8, 51595), (11, 51610), (13, 51769), (15, 51832), (16, 51919), (17, 51928),

Gene: Pipsqueaks_62 Start: 38737, Stop: 39201, Start Num: 4

Candidate Starts for Pipsqueaks_62:

(Start: 4 @38737 has 18 MA's), (8, 38809), (11, 38824), (13, 38983), (15, 39046), (16, 39133),

Gene: Schnauzer_62 Start: 38759, Stop: 39223, Start Num: 4

Candidate Starts for Schnauzer_62:

(Start: 4 @38759 has 18 MA's), (8, 38831), (11, 38846), (13, 39005), (15, 39068), (16, 39155),

Gene: Silvafighter_63 Start: 38302, Stop: 38766, Start Num: 4

Candidate Starts for Silvafighter_63:

(Start: 4 @38302 has 18 MA's), (8, 38374), (11, 38389), (13, 38548), (15, 38611), (16, 38698),

Gene: Silvy_62 Start: 39395, Stop: 39856, Start Num: 4

Candidate Starts for Silvy_62:

(Start: 4 @39395 has 18 MA's), (8, 39467), (11, 39482), (13, 39641), (15, 39704), (16, 39791),

Gene: SkinnyPete_58 Start: 38506, Stop: 38970, Start Num: 4

Candidate Starts for SkinnyPete_58:

(Start: 4 @38506 has 18 MA's), (8, 38578), (11, 38593), (13, 38752), (15, 38815), (16, 38902),

Gene: Smurph_61 Start: 38759, Stop: 39223, Start Num: 4

Candidate Starts for Smurph_61:

(Start: 4 @38759 has 18 MA's), (8, 38831), (11, 38846), (13, 39005), (15, 39068), (16, 39155),

Gene: ThulaThula_64 Start: 43444, Stop: 43848, Start Num: 9

Candidate Starts for ThulaThula_64:

(Start: 9 @43444 has 1 MA's), (Start: 10 @43447 has 5 MA's), (12, 43627), (13, 43630), (15, 43693), (16, 43780), (17, 43789), (18, 43810),

Gene: Xerxes_61 Start: 38756, Stop: 39220, Start Num: 4

Candidate Starts for Xerxes_61:

(Start: 4 @38756 has 18 MA's), (8, 38828), (11, 38843), (13, 39002), (15, 39065), (16, 39152),