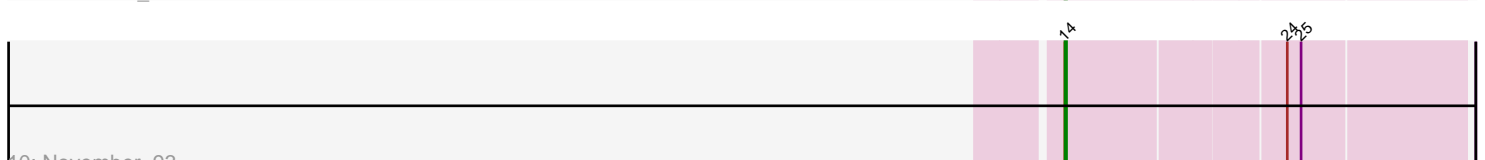
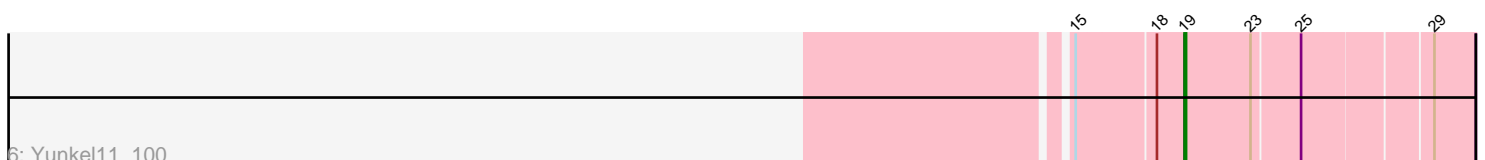
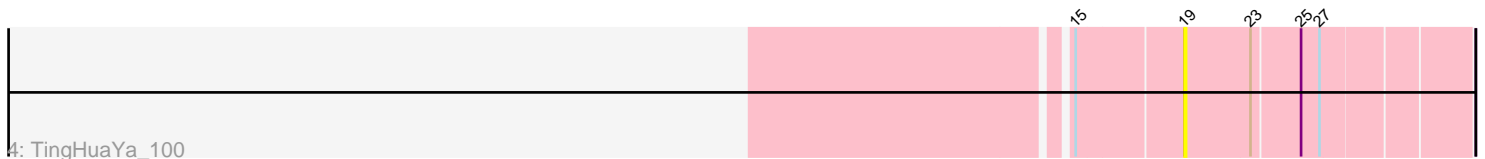
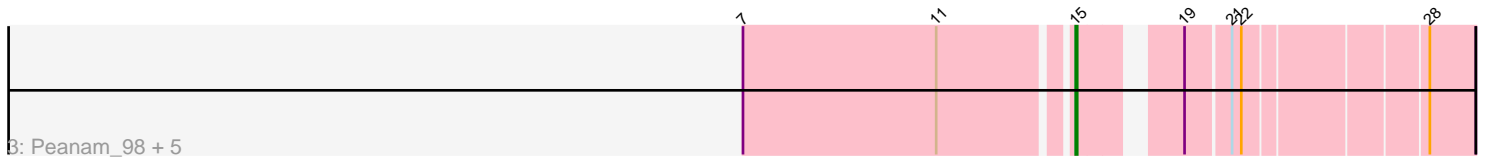
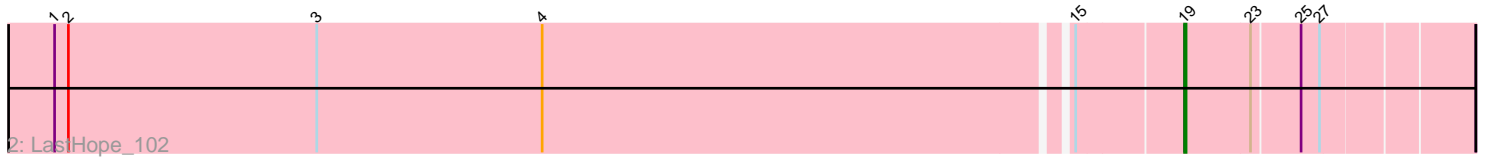
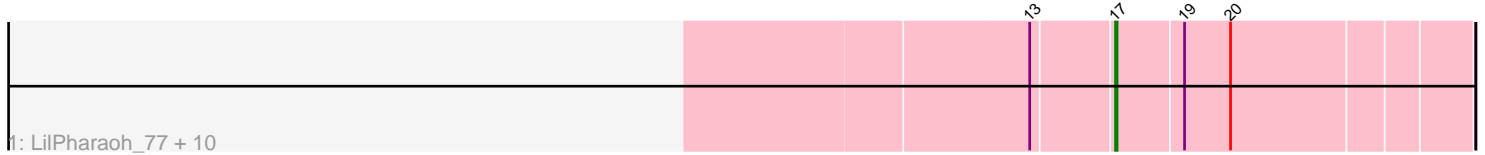


Pham 311921



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 311921 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311921 has 27 members, 7 are drafts.

Phages represented in each track:

- Track 1 : LilPharaoh_77, Nutello_76, SgtBeansprout_77, Enkosi_78, Mdavu_77, Amelie_76, Biglebops_76, Trice_76, Nikao_79, Teejan_78, Torres_79
- Track 2 : LastHope_102
- Track 3 : Peanam_98, Dartin_97, Niklas_97, Shaobing_95, Richo_97, McMater_97
- Track 4 : TingHuaYa_100
- Track 5 : Joy99_96
- Track 6 : Yunkel11_100
- Track 7 : Validus_105
- Track 8 : Chavito_98
- Track 9 : Amohnition_94, DarthP_94, Hammy_94
- Track 10 : November_93

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

The start number called the most often in the published annotations is 17, it was called in 9 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amelie_76, Biglebops_76, Enkosi_78, LilPharaoh_77, Mdavu_77, Nikao_79, Nutello_76, SgtBeansprout_77, Teejan_78, Torres_79, Trice_76,

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

-

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

- Amohnition_94, Chavito_98, DarthP_94, Dartin_97, Hammy_94, Joy99_96, LastHope_102, McMater_97, Niklas_97, November_93, Peanam_98, Richo_97, Shaobing_95, TingHuaYa_100, Validus_105, Yunkel11_100,

Summary by start number:

Start 14:

- Found in 4 of 27 (14.8%) of genes in pham
- Manual Annotations of this start: 4 of 20

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amohnition_94 (K6), DarthP_94 (K6), Hammy_94 (K6), November_93 (K6),

Start 15:

- Found in 11 of 27 (40.7%) of genes in pham
- Manual Annotations of this start: 4 of 20
- Called 63.6% of time when present
- Phage (with cluster) where this start called: Dartin_97 (K1), McMater_97 (K1), Niklas_97 (K1), Peanam_98 (K1), Richo_97 (K1), Shaobing_95 (K1), Validus_105 (K1),

Start 17:

- Found in 11 of 27 (40.7%) of genes in pham
- Manual Annotations of this start: 9 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amelie_76 (K1), Binglebops_76 (K1), Enkosi_78 (K1), LilPharaoh_77 (K1), Mdavu_77 (K1), Nikao_79 (K1), Nutello_76 (K1), SgtBeansprout_77 (K1), Teejan_78 (K1), Torres_79 (K1), Trice_76 (K1),

Start 19:

- Found in 26 of 27 (96.3%) of genes in pham
- Manual Annotations of this start: 3 of 20
- Called 15.4% of time when present
- Phage (with cluster) where this start called: Joy99_96 (K1), LastHope_102 (K1), TingHuaYa_100 (K1), Yunkel11_100 (K1),

Start 22:

- Found in 8 of 27 (29.6%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Chavito_98 (K1),

Summary by clusters:

There are 2 clusters represented in this pham: K1, K6,

Info for manual annotations of cluster K1:

- Start number 15 was manually annotated 4 times for cluster K1.
- Start number 17 was manually annotated 9 times for cluster K1.
- Start number 19 was manually annotated 3 times for cluster K1.

Info for manual annotations of cluster K6:

- Start number 14 was manually annotated 4 times for cluster K6.

Gene Information:

Gene: Amelie_76 Start: 55854, Stop: 56072, Start Num: 17

Candidate Starts for Amelie_76:

(13, 55806), (Start: 17 @55854 has 9 MA's), (Start: 19 @55896 has 3 MA's), (20, 55926),

Gene: Amohnition_94 Start: 61150, Stop: 61401, Start Num: 14
Candidate Starts for Amohnition_94:
(Start: 14 @61150 has 4 MA's), (Start: 19 @61228 has 3 MA's), (24, 61288), (25, 61297),

Gene: Biglebops_76 Start: 55869, Stop: 56087, Start Num: 17
Candidate Starts for Biglebops_76:
(13, 55821), (Start: 17 @55869 has 9 MA's), (Start: 19 @55911 has 3 MA's), (20, 55941),

Gene: Chavito_98 Start: 61611, Stop: 61748, Start Num: 22
Candidate Starts for Chavito_98:
(Start: 15 @61524 has 4 MA's), (Start: 19 @61578 has 3 MA's), (21, 61605), (22, 61611), (28, 61719),

Gene: DarthP_94 Start: 60983, Stop: 61234, Start Num: 14
Candidate Starts for DarthP_94:
(Start: 14 @60983 has 4 MA's), (Start: 19 @61061 has 3 MA's), (24, 61121), (25, 61130),

Gene: Dartin_97 Start: 60821, Stop: 61057, Start Num: 15
Candidate Starts for Dartin_97:
(7, 60617), (11, 60743), (Start: 15 @60821 has 4 MA's), (Start: 19 @60887 has 3 MA's), (21, 60914),
(22, 60920), (28, 61028),

Gene: Enkosi_78 Start: 58467, Stop: 58685, Start Num: 17
Candidate Starts for Enkosi_78:
(13, 58419), (Start: 17 @58467 has 9 MA's), (Start: 19 @58509 has 3 MA's), (20, 58539),

Gene: Hammy_94 Start: 61201, Stop: 61452, Start Num: 14
Candidate Starts for Hammy_94:
(Start: 14 @61201 has 4 MA's), (Start: 19 @61279 has 3 MA's), (24, 61339), (25, 61348),

Gene: Joy99_96 Start: 59127, Stop: 59300, Start Num: 19
Candidate Starts for Joy99_96:
(5, 58830), (6, 58833), (8, 58857), (9, 58896), (10, 58917), (12, 58977), (16, 59070), (Start: 19 @59127
has 3 MA's), (26, 59205), (28, 59274),

Gene: LastHope_102 Start: 60395, Stop: 60571, Start Num: 19
Candidate Starts for LastHope_102:
(1, 59678), (2, 59687), (3, 59849), (4, 59996), (Start: 15 @60329 has 4 MA's), (Start: 19 @60395 has 3
MA's), (23, 60437), (25, 60467), (27, 60479),

Gene: LilPharaoh_77 Start: 55582, Stop: 55800, Start Num: 17
Candidate Starts for LilPharaoh_77:
(13, 55534), (Start: 17 @55582 has 9 MA's), (Start: 19 @55624 has 3 MA's), (20, 55654),

Gene: McMater_97 Start: 60821, Stop: 61057, Start Num: 15
Candidate Starts for McMater_97:
(7, 60617), (11, 60743), (Start: 15 @60821 has 4 MA's), (Start: 19 @60887 has 3 MA's), (21, 60914),
(22, 60920), (28, 61028),

Gene: Mdavu_77 Start: 55858, Stop: 56076, Start Num: 17
Candidate Starts for Mdavu_77:
(13, 55810), (Start: 17 @55858 has 9 MA's), (Start: 19 @55900 has 3 MA's), (20, 55930),

Gene: Nikao_79 Start: 58467, Stop: 58685, Start Num: 17

Candidate Starts for Nikao_79:

(13, 58419), (Start: 17 @58467 has 9 MA's), (Start: 19 @58509 has 3 MA's), (20, 58539),

Gene: Niklas_97 Start: 60422, Stop: 60658, Start Num: 15

Candidate Starts for Niklas_97:

(7, 60218), (11, 60344), (Start: 15 @60422 has 4 MA's), (Start: 19 @60488 has 3 MA's), (21, 60515), (22, 60521), (28, 60629),

Gene: November_93 Start: 60907, Stop: 61155, Start Num: 14

Candidate Starts for November_93:

(Start: 14 @60907 has 4 MA's), (24, 61042), (25, 61051),

Gene: Nutello_76 Start: 55854, Stop: 56072, Start Num: 17

Candidate Starts for Nutello_76:

(13, 55806), (Start: 17 @55854 has 9 MA's), (Start: 19 @55896 has 3 MA's), (20, 55926),

Gene: Peanam_98 Start: 60489, Stop: 60710, Start Num: 15

Candidate Starts for Peanam_98:

(7, 60285), (11, 60411), (Start: 15 @60489 has 4 MA's), (Start: 19 @60540 has 3 MA's), (21, 60567), (22, 60573), (28, 60681),

Gene: Richo_97 Start: 60821, Stop: 61057, Start Num: 15

Candidate Starts for Richo_97:

(7, 60617), (11, 60743), (Start: 15 @60821 has 4 MA's), (Start: 19 @60887 has 3 MA's), (21, 60914), (22, 60920), (28, 61028),

Gene: SgtBeansprout_77 Start: 55854, Stop: 56072, Start Num: 17

Candidate Starts for SgtBeansprout_77:

(13, 55806), (Start: 17 @55854 has 9 MA's), (Start: 19 @55896 has 3 MA's), (20, 55926),

Gene: Shaobing_95 Start: 60463, Stop: 60699, Start Num: 15

Candidate Starts for Shaobing_95:

(7, 60259), (11, 60385), (Start: 15 @60463 has 4 MA's), (Start: 19 @60529 has 3 MA's), (21, 60556), (22, 60562), (28, 60670),

Gene: Teejan_78 Start: 58467, Stop: 58685, Start Num: 17

Candidate Starts for Teejan_78:

(13, 58419), (Start: 17 @58467 has 9 MA's), (Start: 19 @58509 has 3 MA's), (20, 58539),

Gene: TingHuaYa_100 Start: 60724, Stop: 60897, Start Num: 19

Candidate Starts for TingHuaYa_100:

(Start: 15 @60658 has 4 MA's), (Start: 19 @60724 has 3 MA's), (23, 60766), (25, 60796), (27, 60808),

Gene: Torres_79 Start: 58468, Stop: 58686, Start Num: 17

Candidate Starts for Torres_79:

(13, 58420), (Start: 17 @58468 has 9 MA's), (Start: 19 @58510 has 3 MA's), (20, 58540),

Gene: Trice_76 Start: 55855, Stop: 56073, Start Num: 17

Candidate Starts for Trice_76:

(13, 55807), (Start: 17 @55855 has 9 MA's), (Start: 19 @55897 has 3 MA's), (20, 55927),

Gene: Validus_105 Start: 61894, Stop: 62133, Start Num: 15

Candidate Starts for Validus_105:

(Start: 15 @61894 has 4 MA's), (Start: 19 @61963 has 3 MA's), (21, 61990), (22, 61996), (28, 62104),

Gene: Yunkel11_100 Start: 60221, Stop: 60397, Start Num: 19

Candidate Starts for Yunkel11_100:

(Start: 15 @60155 has 4 MA's), (18, 60203), (Start: 19 @60221 has 3 MA's), (23, 60263), (25, 60293),
(29, 60371),