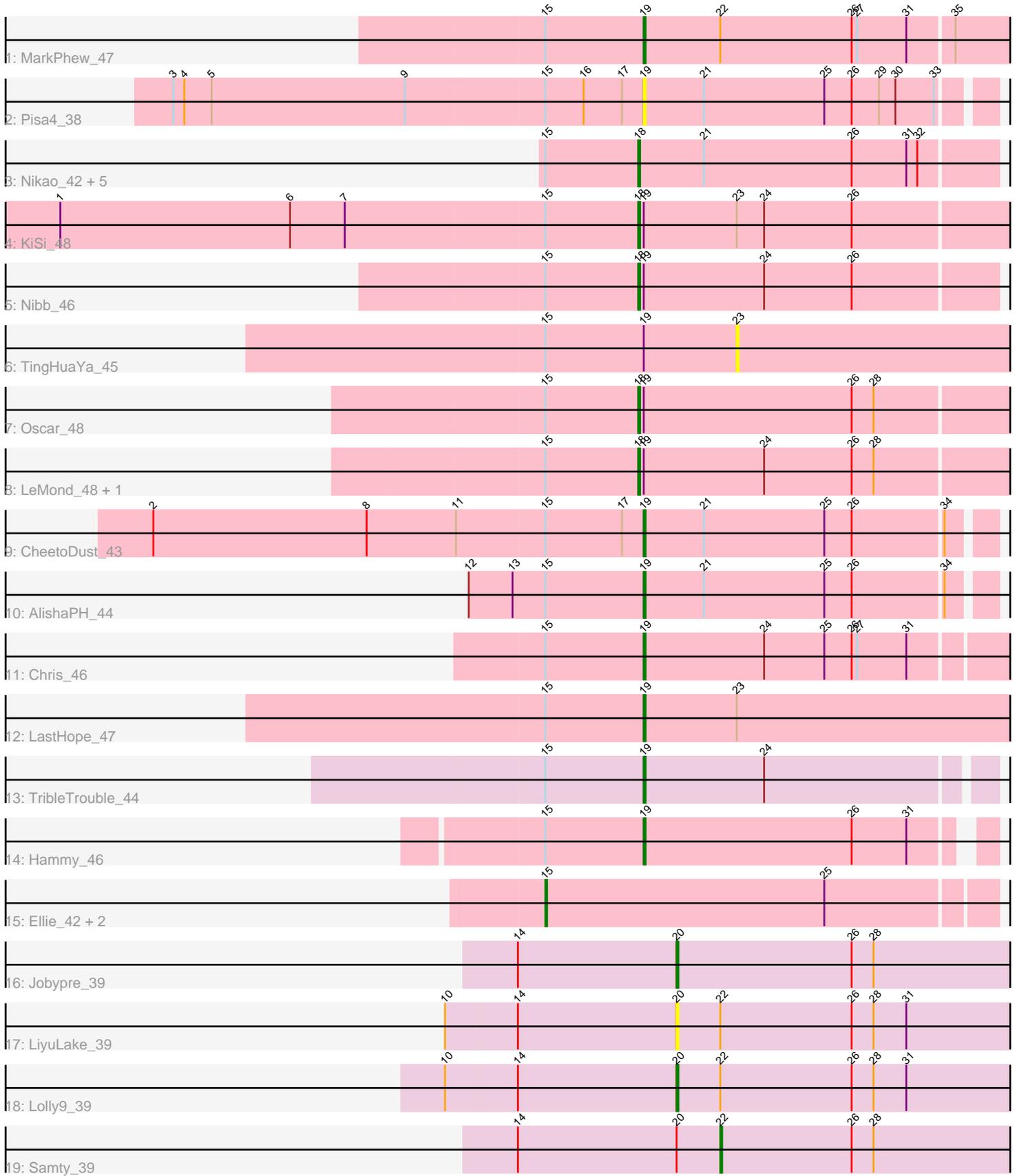


Pham 291452



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 291452 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291452 has 27 members, 5 are drafts.

Phages represented in each track:

- Track 1 : MarkPheW_47
- Track 2 : Pisa4_38
- Track 3 : Nikao_42, Torres_42, Teejan_42, SgtBeansprout_39, Trice_40, Enkosi_42
- Track 4 : KiSi_48
- Track 5 : Nibb_46
- Track 6 : TingHuaYa_45
- Track 7 : Oscar_48
- Track 8 : LeMond_48, Scarlett_48
- Track 9 : CheetoDust_43
- Track 10 : AlishaPH_44
- Track 11 : Chris_46
- Track 12 : LastHope_47
- Track 13 : TribbleTrouble_44
- Track 14 : Hammy_46
- Track 15 : Ellie_42, Applecrisp_43, Fefferhead_44
- Track 16 : Jobypre_39
- Track 17 : LiyuLake_39
- Track 18 : Lolly9_39
- Track 19 : Samty_39

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

The start number called the most often in the published annotations is 18, it was called in 9 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Enkosi_42, KiSi_48, LeMond_48, Nibb_46, Nikao_42, Oscar_48, Scarlett_48, SgtBeansprout_39, Teejan_42, Torres_42, Trice_40,

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

-

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

- AlishaPH_44, Applecrisp_43, CheetoDust_43, Chris_46, Ellie_42, Fefferhead_44, Hammy_46, Jobypre_39, LastHope_47, LiyuLake_39, Lolly9_39, MarkPhew_47, Pisa4_38, Samty_39, TingHuaYa_45, TribieTrouble_44,

Summary by start number:

Start 15:

- Found in 23 of 27 (85.2%) of genes in pham
- Manual Annotations of this start: 3 of 22
- Called 13.0% of time when present
- Phage (with cluster) where this start called: Applecrisp_43 (K6), Ellie_42 (K6), Fefferhead_44 (K6),

Start 18:

- Found in 11 of 27 (40.7%) of genes in pham
- Manual Annotations of this start: 9 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Enkosi_42 (K1), KiSi_48 (K1), LeMond_48 (K1), Nibb_46 (K1), Nikao_42 (K1), Oscar_48 (K1), Scarlett_48 (K1), SgtBeansprout_39 (K1), Teejan_42 (K1), Torres_42 (K1), Trice_40 (K1),

Start 19:

- Found in 14 of 27 (51.9%) of genes in pham
- Manual Annotations of this start: 7 of 22
- Called 57.1% of time when present
- Phage (with cluster) where this start called: AlishaPH_44 (K1), CheetoDust_43 (K1), Chris_46 (K1), Hammy_46 (K6), LastHope_47 (K1), MarkPhew_47 (K1), Pisa4_38 (K1), TribieTrouble_44 (K3),

Start 20:

- Found in 4 of 27 (14.8%) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Jobypre_39 (L3), LiyuLake_39 (L3), Lolly9_39 (L3),

Start 22:

- Found in 4 of 27 (14.8%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Samty_39 (L3),

Start 23:

- Found in 3 of 27 (11.1%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: TingHuaYa_45 (K1),

Summary by clusters:

There are 4 clusters represented in this pham: K3, K1, K6, L3,

Info for manual annotations of cluster K1:

- Start number 18 was manually annotated 9 times for cluster K1.
- Start number 19 was manually annotated 5 times for cluster K1.

Info for manual annotations of cluster K3:

- Start number 19 was manually annotated 1 time for cluster K3.

Info for manual annotations of cluster K6:

- Start number 15 was manually annotated 3 times for cluster K6.
- Start number 19 was manually annotated 1 time for cluster K6.

Info for manual annotations of cluster L3:

- Start number 20 was manually annotated 2 times for cluster L3.
- Start number 22 was manually annotated 1 time for cluster L3.

Gene Information:

Gene: AlishaPH_44 Start: 35486, Stop: 35671, Start Num: 19

Candidate Starts for AlishaPH_44:

(12, 35390), (13, 35414), (Start: 15 @35432 has 3 MA's), (Start: 19 @35486 has 7 MA's), (21, 35519), (25, 35585), (26, 35600), (34, 35648),

Gene: Applecrisp_43 Start: 35732, Stop: 35974, Start Num: 15

Candidate Starts for Applecrisp_43:

(Start: 15 @35732 has 3 MA's), (25, 35885),

Gene: CheetoDust_43 Start: 34700, Stop: 34885, Start Num: 19

Candidate Starts for CheetoDust_43:

(2, 34433), (8, 34550), (11, 34598), (Start: 15 @34646 has 3 MA's), (17, 34688), (Start: 19 @34700 has 7 MA's), (21, 34733), (25, 34799), (26, 34814), (34, 34862),

Gene: Chris_46 Start: 35995, Stop: 36195, Start Num: 19

Candidate Starts for Chris_46:

(Start: 15 @35941 has 3 MA's), (Start: 19 @35995 has 7 MA's), (24, 36061), (25, 36094), (26, 36109), (27, 36112), (31, 36139),

Gene: Ellie_42 Start: 35424, Stop: 35666, Start Num: 15

Candidate Starts for Ellie_42:

(Start: 15 @35424 has 3 MA's), (25, 35577),

Gene: Enkosi_42 Start: 37403, Stop: 37597, Start Num: 18

Candidate Starts for Enkosi_42:

(Start: 15 @37352 has 3 MA's), (Start: 18 @37403 has 9 MA's), (21, 37439), (26, 37520), (31, 37550), (32, 37556),

Gene: Fefferhead_44 Start: 35375, Stop: 35617, Start Num: 15

Candidate Starts for Fefferhead_44:

(Start: 15 @35375 has 3 MA's), (25, 35528),

Gene: Hammy_46 Start: 36187, Stop: 36366, Start Num: 19

Candidate Starts for Hammy_46:

(Start: 15 @36133 has 3 MA's), (Start: 19 @36187 has 7 MA's), (26, 36301), (31, 36331),

Gene: Jobypre_39 Start: 34742, Stop: 34954, Start Num: 20
Candidate Starts for Jobypre_39:
(14, 34655), (Start: 20 @34742 has 2 MA's), (26, 34838), (28, 34850),

Gene: KiSi_48 Start: 36394, Stop: 36600, Start Num: 18
Candidate Starts for KiSi_48:
(1, 36079), (6, 36205), (7, 36235), (Start: 15 @36343 has 3 MA's), (Start: 18 @36394 has 9 MA's),
(Start: 19 @36397 has 7 MA's), (23, 36448), (24, 36463), (26, 36511),

Gene: LastHope_47 Start: 34715, Stop: 34948, Start Num: 19
Candidate Starts for LastHope_47:
(Start: 15 @34661 has 3 MA's), (Start: 19 @34715 has 7 MA's), (23, 34766),

Gene: LeMond_48 Start: 36378, Stop: 36584, Start Num: 18
Candidate Starts for LeMond_48:
(Start: 15 @36327 has 3 MA's), (Start: 18 @36378 has 9 MA's), (Start: 19 @36381 has 7 MA's), (24,
36447), (26, 36495), (28, 36507),

Gene: LiyuLake_39 Start: 34726, Stop: 34938, Start Num: 20
Candidate Starts for LiyuLake_39:
(10, 34600), (14, 34639), (Start: 20 @34726 has 2 MA's), (Start: 22 @34750 has 1 MA's), (26, 34822),
(28, 34834), (31, 34852),

Gene: Lolly9_39 Start: 34550, Stop: 34762, Start Num: 20
Candidate Starts for Lolly9_39:
(10, 34424), (14, 34463), (Start: 20 @34550 has 2 MA's), (Start: 22 @34574 has 1 MA's), (26, 34646),
(28, 34658), (31, 34676),

Gene: MarkPhew_47 Start: 35823, Stop: 36026, Start Num: 19
Candidate Starts for MarkPhew_47:
(Start: 15 @35769 has 3 MA's), (Start: 19 @35823 has 7 MA's), (Start: 22 @35865 has 1 MA's), (26,
35937), (27, 35940), (31, 35967), (35, 35991),

Gene: Nibb_46 Start: 35544, Stop: 35738, Start Num: 18
Candidate Starts for Nibb_46:
(Start: 15 @35493 has 3 MA's), (Start: 18 @35544 has 9 MA's), (Start: 19 @35547 has 7 MA's), (24,
35613), (26, 35661),

Gene: Nikao_42 Start: 37403, Stop: 37597, Start Num: 18
Candidate Starts for Nikao_42:
(Start: 15 @37352 has 3 MA's), (Start: 18 @37403 has 9 MA's), (21, 37439), (26, 37520), (31, 37550),
(32, 37556),

Gene: Oscar_48 Start: 36280, Stop: 36486, Start Num: 18
Candidate Starts for Oscar_48:
(Start: 15 @36229 has 3 MA's), (Start: 18 @36280 has 9 MA's), (Start: 19 @36283 has 7 MA's), (26,
36397), (28, 36409),

Gene: Pisa4_38 Start: 31870, Stop: 32055, Start Num: 19
Candidate Starts for Pisa4_38:
(3, 31615), (4, 31621), (5, 31636), (9, 31741), (Start: 15 @31816 has 3 MA's), (16, 31837), (17, 31858),
(Start: 19 @31870 has 7 MA's), (21, 31903), (25, 31969), (26, 31984), (29, 31999), (30, 32008), (33,

32029),

Gene: Samty_39 Start: 34767, Stop: 34955, Start Num: 22

Candidate Starts for Samty_39:

(14, 34656), (Start: 20 @34743 has 2 MA's), (Start: 22 @34767 has 1 MA's), (26, 34839), (28, 34851),

Gene: Scarlett_48 Start: 36272, Stop: 36478, Start Num: 18

Candidate Starts for Scarlett_48:

(Start: 15 @36221 has 3 MA's), (Start: 18 @36272 has 9 MA's), (Start: 19 @36275 has 7 MA's), (24, 36341), (26, 36389), (28, 36401),

Gene: SgtBeansprout_39 Start: 34790, Stop: 34984, Start Num: 18

Candidate Starts for SgtBeansprout_39:

(Start: 15 @34739 has 3 MA's), (Start: 18 @34790 has 9 MA's), (21, 34826), (26, 34907), (31, 34937), (32, 34943),

Gene: Teejan_42 Start: 37403, Stop: 37597, Start Num: 18

Candidate Starts for Teejan_42:

(Start: 15 @37352 has 3 MA's), (Start: 18 @37403 has 9 MA's), (21, 37439), (26, 37520), (31, 37550), (32, 37556),

Gene: TingHuaYa_45 Start: 34549, Stop: 34731, Start Num: 23

Candidate Starts for TingHuaYa_45:

(Start: 15 @34444 has 3 MA's), (Start: 19 @34498 has 7 MA's), (23, 34549),

Gene: Torres_42 Start: 37404, Stop: 37598, Start Num: 18

Candidate Starts for Torres_42:

(Start: 15 @37353 has 3 MA's), (Start: 18 @37404 has 9 MA's), (21, 37440), (26, 37521), (31, 37551), (32, 37557),

Gene: TribelTrouble_44 Start: 35315, Stop: 35500, Start Num: 19

Candidate Starts for TribelTrouble_44:

(Start: 15 @35261 has 3 MA's), (Start: 19 @35315 has 7 MA's), (24, 35381),

Gene: Trice_40 Start: 34791, Stop: 34985, Start Num: 18

Candidate Starts for Trice_40:

(Start: 15 @34740 has 3 MA's), (Start: 18 @34791 has 9 MA's), (21, 34827), (26, 34908), (31, 34938), (32, 34944),