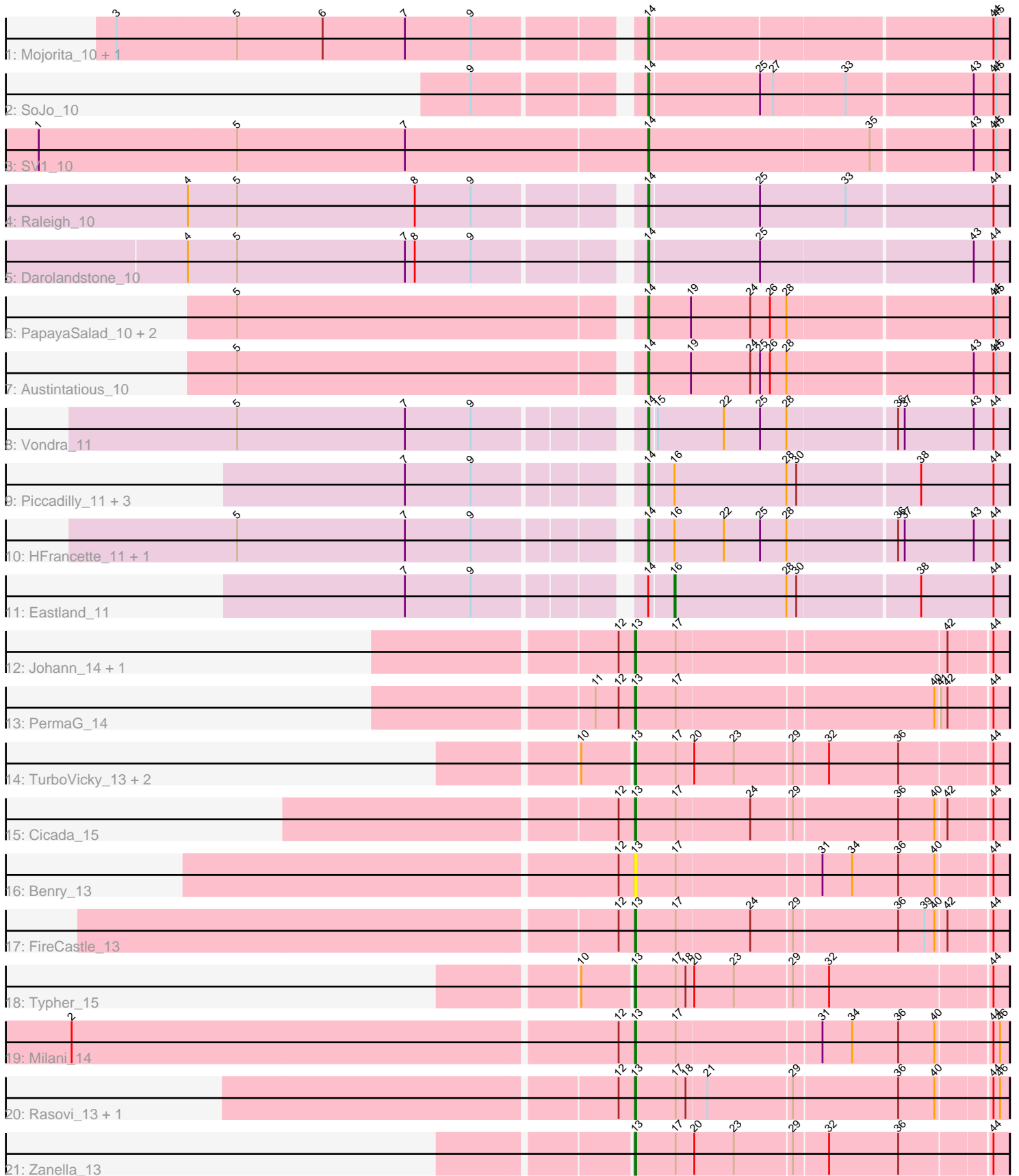


Pham 163806



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 163806 Report

This analysis was run 04/28/24 on database version 559.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 163806 has 32 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Mojorita_10, Picard_10
- Track 2 : SoJo_10
- Track 3 : SV1_10
- Track 4 : Raleigh_10
- Track 5 : Darolandstone_10
- Track 6 : PapayaSalad_10, Bioscum_10, Ididsumtinwong_10
- Track 7 : Austintatious_10
- Track 8 : Vondra_11
- Track 9 : Piccadilly_11, Eklok_11, Cumberbatch_11, AxeJC_11
- Track 10 : HFrancette_11, Ignacio_11
- Track 11 : Eastland_11
- Track 12 : Johann_14, Goodman_14
- Track 13 : PermaG_14
- Track 14 : TurboVicky_13, SBlackberry_13, Jera_14
- Track 15 : Cicada_15
- Track 16 : Benry_13
- Track 17 : FireCastle_13
- Track 18 : Typher_15
- Track 19 : Milani_14
- Track 20 : Rasovi_13, Htur_13
- Track 21 : Zanella_13

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

The start number called the most often in the published annotations is 14, it was called in 17 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Austintatious_10, AxeJC_11, Bioscum_10, Cumberbatch_11, Darolandstone_10, Eklok_11, HFrancette_11, Ididsumtinwong_10, Ignacio_11, Mojorita_10,

PapayaSalad_10, Picard_10, Piccadilly_11, Raleigh_10, SV1_10, SoJo_10, Vondra_11,

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

- Eastland_11,

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

- Benry_13, Cicada_15, FireCastle_13, Goodman_14, Htur_13, Jera_14, Johann_14, Milani_14, PermaG_14, Rasovi_13, SBlackberry_13, TurboVicky_13, Typher_15, Zanella_13,

Summary by start number:

Start 13:

- Found in 14 of 32 (43.8%) of genes in pham
- Manual Annotations of this start: 12 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Benry_13 (EJ), Cicada_15 (EJ), FireCastle_13 (EJ), Goodman_14 (EJ), Htur_13 (EJ), Jera_14 (EJ), Johann_14 (EJ), Milani_14 (EJ), PermaG_14 (EJ), Rasovi_13 (EJ), SBlackberry_13 (EJ), TurboVicky_13 (EJ), Typher_15 (EJ), Zanella_13 (EJ),

Start 14:

- Found in 18 of 32 (56.2%) of genes in pham
- Manual Annotations of this start: 17 of 30
- Called 94.4% of time when present
- Phage (with cluster) where this start called: Austintatious_10 (BC3), AxeJC_11 (BP), Bioscum_10 (BC3), Cumberbatch_11 (BP), Darolandstone_10 (BC2), Eklok_11 (BP), HFrancette_11 (BP), Ididsumtinwong_10 (BC3), Ignacio_11 (BP), Mojerita_10 (BC1), PapayaSalad_10 (BC3), Picard_10 (BC1), Piccadilly_11 (BP), Raleigh_10 (BC2), SV1_10 (BC1), SoJo_10 (BC1), Vondra_11 (BP),

Start 16:

- Found in 7 of 32 (21.9%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Eastland_11 (BP),

Summary by clusters:

There are 5 clusters represented in this pham: BC3, BP, BC1, BC2, EJ,

Info for manual annotations of cluster BC1:

- Start number 14 was manually annotated 4 times for cluster BC1.

Info for manual annotations of cluster BC2:

- Start number 14 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BC3:

- Start number 14 was manually annotated 4 times for cluster BC3.

Info for manual annotations of cluster BP:

- Start number 14 was manually annotated 7 times for cluster BP.

- Start number 16 was manually annotated 1 time for cluster BP.

Info for manual annotations of cluster EJ:

- Start number 13 was manually annotated 12 times for cluster EJ.

Gene Information:

Gene: Austintatious_10 Start: 7516, Stop: 7836, Start Num: 14

Candidate Starts for Austintatious_10:

(5, 7162), (Start: 14 @7516 has 17 MA's), (19, 7555), (24, 7609), (25, 7618), (26, 7627), (28, 7642), (43, 7804), (44, 7822), (45, 7825),

Gene: AxeJC_11 Start: 7664, Stop: 7981, Start Num: 14

Candidate Starts for AxeJC_11:

(7, 7472), (9, 7532), (Start: 14 @7664 has 17 MA's), (Start: 16 @7685 has 1 MA's), (28, 7787), (30, 7796), (38, 7901), (44, 7967),

Gene: Benry_13 Start: 9080, Stop: 9403, Start Num: 13

Candidate Starts for Benry_13:

(12, 9071), (Start: 13 @9080 has 12 MA's), (17, 9116), (31, 9242), (34, 9269), (36, 9311), (40, 9344), (44, 9389),

Gene: Bioscum_10 Start: 7552, Stop: 7872, Start Num: 14

Candidate Starts for Bioscum_10:

(5, 7198), (Start: 14 @7552 has 17 MA's), (19, 7591), (24, 7645), (26, 7663), (28, 7678), (44, 7858), (45, 7861),

Gene: Cicada_15 Start: 11149, Stop: 11472, Start Num: 13

Candidate Starts for Cicada_15:

(12, 11140), (Start: 13 @11149 has 12 MA's), (17, 11185), (24, 11251), (29, 11287), (36, 11380), (40, 11413), (42, 11422), (44, 11458),

Gene: Cumberbatch_11 Start: 7651, Stop: 7968, Start Num: 14

Candidate Starts for Cumberbatch_11:

(7, 7459), (9, 7519), (Start: 14 @7651 has 17 MA's), (Start: 16 @7672 has 1 MA's), (28, 7774), (30, 7783), (38, 7888), (44, 7954),

Gene: Darolandstone_10 Start: 7986, Stop: 8303, Start Num: 14

Candidate Starts for Darolandstone_10:

(4, 7593), (5, 7638), (7, 7791), (8, 7800), (9, 7851), (Start: 14 @7986 has 17 MA's), (25, 8085), (43, 8271), (44, 8289),

Gene: Eastland_11 Start: 7673, Stop: 7969, Start Num: 16

Candidate Starts for Eastland_11:

(7, 7460), (9, 7520), (Start: 14 @7652 has 17 MA's), (Start: 16 @7673 has 1 MA's), (28, 7775), (30, 7784), (38, 7889), (44, 7955),

Gene: Eklok_11 Start: 7664, Stop: 7981, Start Num: 14

Candidate Starts for Eklok_11:

(7, 7472), (9, 7532), (Start: 14 @7664 has 17 MA's), (Start: 16 @7685 has 1 MA's), (28, 7787), (30, 7796), (38, 7901), (44, 7967),

Gene: FireCastle_13 Start: 10810, Stop: 11133, Start Num: 13

Candidate Starts for FireCastle_13:

(12, 10801), (Start: 13 @10810 has 12 MA's), (17, 10846), (24, 10912), (29, 10948), (36, 11041), (39, 11065), (40, 11074), (42, 11083), (44, 11119),

Gene: Goodman_14 Start: 11061, Stop: 11384, Start Num: 13

Candidate Starts for Goodman_14:

(12, 11052), (Start: 13 @11061 has 12 MA's), (17, 11097), (42, 11334), (44, 11370),

Gene: HFrancette_11 Start: 7660, Stop: 7977, Start Num: 14

Candidate Starts for HFrancette_11:

(5, 7315), (7, 7468), (9, 7528), (Start: 14 @7660 has 17 MA's), (Start: 16 @7681 has 1 MA's), (22, 7726), (25, 7759), (28, 7783), (36, 7876), (37, 7882), (43, 7945), (44, 7963),

Gene: Htur_13 Start: 11064, Stop: 11387, Start Num: 13

Candidate Starts for Htur_13:

(12, 11055), (Start: 13 @11064 has 12 MA's), (17, 11100), (18, 11109), (21, 11127), (29, 11202), (36, 11295), (40, 11328), (44, 11373), (46, 11379),

Gene: Ididsumtinwong_10 Start: 7552, Stop: 7872, Start Num: 14

Candidate Starts for Ididsumtinwong_10:

(5, 7198), (Start: 14 @7552 has 17 MA's), (19, 7591), (24, 7645), (26, 7663), (28, 7678), (44, 7858), (45, 7861),

Gene: Ignacio_11 Start: 7660, Stop: 7977, Start Num: 14

Candidate Starts for Ignacio_11:

(5, 7315), (7, 7468), (9, 7528), (Start: 14 @7660 has 17 MA's), (Start: 16 @7681 has 1 MA's), (22, 7726), (25, 7759), (28, 7783), (36, 7876), (37, 7882), (43, 7945), (44, 7963),

Gene: Jera_14 Start: 10142, Stop: 10465, Start Num: 13

Candidate Starts for Jera_14:

(10, 10097), (Start: 13 @10142 has 12 MA's), (17, 10178), (20, 10193), (23, 10229), (29, 10280), (32, 10310), (36, 10373), (44, 10451),

Gene: Johann_14 Start: 11061, Stop: 11384, Start Num: 13

Candidate Starts for Johann_14:

(12, 11052), (Start: 13 @11061 has 12 MA's), (17, 11097), (42, 11334), (44, 11370),

Gene: Milani_14 Start: 9739, Stop: 10062, Start Num: 13

Candidate Starts for Milani_14:

(2, 9241), (12, 9730), (Start: 13 @9739 has 12 MA's), (17, 9775), (31, 9901), (34, 9928), (36, 9970), (40, 10003), (44, 10048), (46, 10054),

Gene: Mojarita_10 Start: 7832, Stop: 8146, Start Num: 14

Candidate Starts for Mojarita_10:

(3, 7376), (5, 7484), (6, 7562), (7, 7637), (9, 7697), (Start: 14 @7832 has 17 MA's), (44, 8132), (45, 8135),

Gene: PapayaSalad_10 Start: 7524, Stop: 7844, Start Num: 14

Candidate Starts for PapayaSalad_10:

(5, 7170), (Start: 14 @7524 has 17 MA's), (19, 7563), (24, 7617), (26, 7635), (28, 7650), (44, 7830), (45, 7833),

Gene: PermaG_14 Start: 11124, Stop: 11447, Start Num: 13

Candidate Starts for PermaG_14:

(11, 11094), (12, 11115), (Start: 13 @11124 has 12 MA's), (17, 11160), (40, 11388), (41, 11391), (42, 11397), (44, 11433),

Gene: Picard_10 Start: 7832, Stop: 8146, Start Num: 14

Candidate Starts for Picard_10:

(3, 7376), (5, 7484), (6, 7562), (7, 7637), (9, 7697), (Start: 14 @7832 has 17 MA's), (44, 8132), (45, 8135),

Gene: Piccadilly_11 Start: 7651, Stop: 7968, Start Num: 14

Candidate Starts for Piccadilly_11:

(7, 7459), (9, 7519), (Start: 14 @7651 has 17 MA's), (Start: 16 @7672 has 1 MA's), (28, 7774), (30, 7783), (38, 7888), (44, 7954),

Gene: Raleigh_10 Start: 7951, Stop: 8271, Start Num: 14

Candidate Starts for Raleigh_10:

(4, 7558), (5, 7603), (8, 7765), (9, 7816), (Start: 14 @7951 has 17 MA's), (25, 8050), (33, 8128), (44, 8257),

Gene: Rasovi_13 Start: 11064, Stop: 11387, Start Num: 13

Candidate Starts for Rasovi_13:

(12, 11055), (Start: 13 @11064 has 12 MA's), (17, 11100), (18, 11109), (21, 11127), (29, 11202), (36, 11295), (40, 11328), (44, 11373), (46, 11379),

Gene: SBlackberry_13 Start: 10901, Stop: 11224, Start Num: 13

Candidate Starts for SBlackberry_13:

(10, 10856), (Start: 13 @10901 has 12 MA's), (17, 10937), (20, 10952), (23, 10988), (29, 11039), (32, 11069), (36, 11132), (44, 11210),

Gene: SV1_10 Start: 7724, Stop: 8044, Start Num: 14

Candidate Starts for SV1_10:

(1, 7172), (5, 7352), (7, 7505), (Start: 14 @7724 has 17 MA's), (35, 7922), (43, 8012), (44, 8030), (45, 8033),

Gene: SoJo_10 Start: 7746, Stop: 8063, Start Num: 14

Candidate Starts for SoJo_10:

(9, 7611), (Start: 14 @7746 has 17 MA's), (25, 7845), (27, 7857), (33, 7920), (43, 8031), (44, 8049), (45, 8052),

Gene: TurboVicky_13 Start: 10895, Stop: 11218, Start Num: 13

Candidate Starts for TurboVicky_13:

(10, 10850), (Start: 13 @10895 has 12 MA's), (17, 10931), (20, 10946), (23, 10982), (29, 11033), (32, 11063), (36, 11126), (44, 11204),

Gene: Typher_15 Start: 11029, Stop: 11352, Start Num: 13

Candidate Starts for Typher_15:

(10, 10984), (Start: 13 @11029 has 12 MA's), (17, 11065), (18, 11074), (20, 11080), (23, 11116), (29, 11167), (32, 11197), (44, 11338),

Gene: Vondra_11 Start: 7660, Stop: 7977, Start Num: 14

Candidate Starts for Vondra_11:

(5, 7315), (7, 7468), (9, 7528), (Start: 14 @7660 has 17 MA's), (15, 7666), (22, 7726), (25, 7759), (28, 7783), (36, 7876), (37, 7882), (43, 7945), (44, 7963),

Gene: Zanella_13 Start: 10898, Stop: 11221, Start Num: 13

Candidate Starts for Zanella_13:

(Start: 13 @10898 has 12 MA's), (17, 10934), (20, 10949), (23, 10985), (29, 11036), (32, 11066), (36, 11129), (44, 11207),