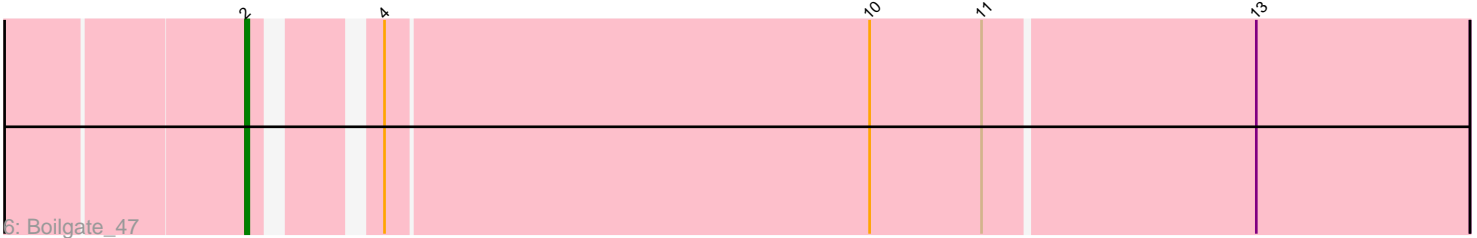
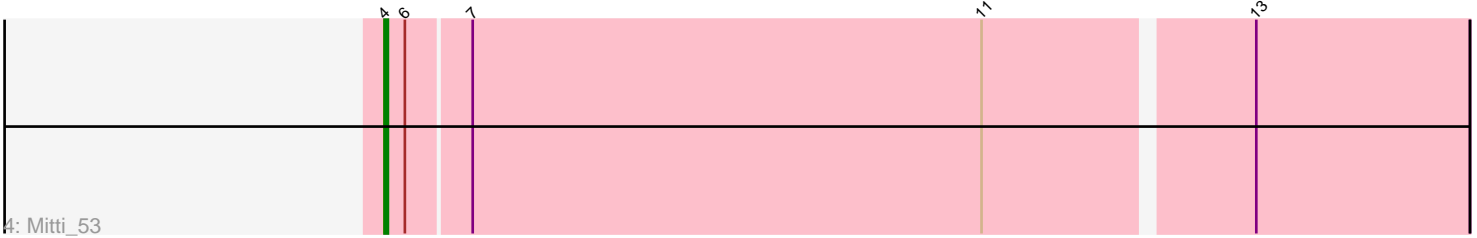
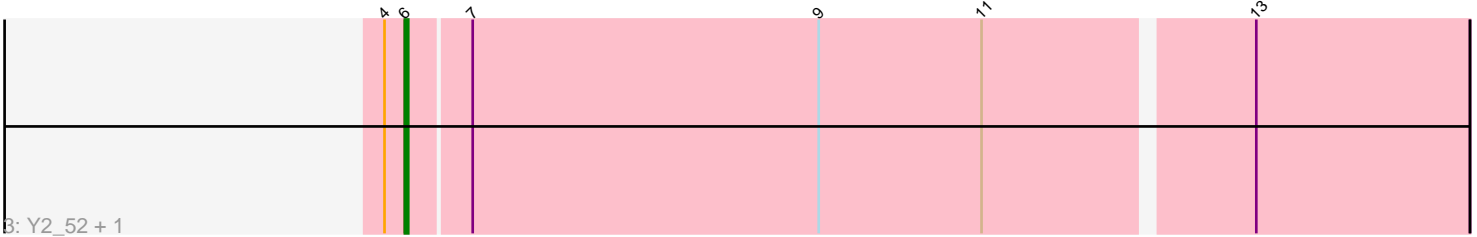
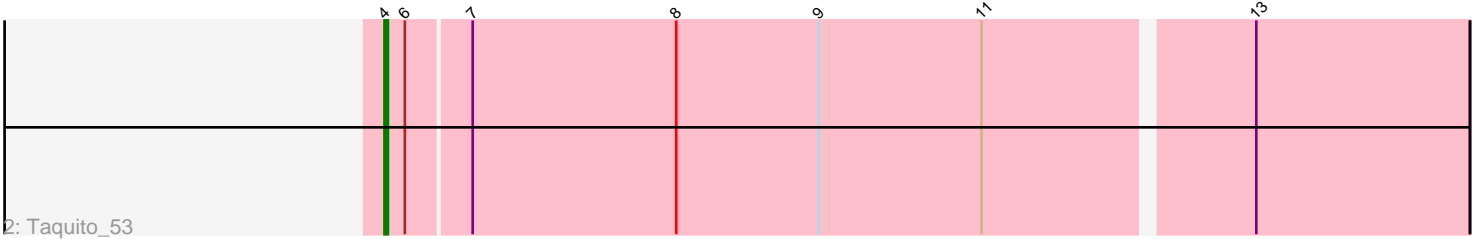
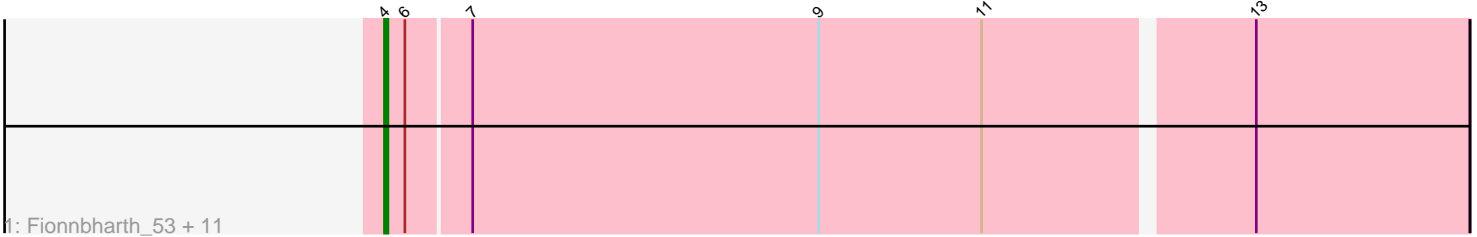


Pham 86778



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 86778 Report

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

Pham number 86778 has 18 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Fionnbharth_53, Ruthiejr_54, Malthus_54, Cheetobro_53, Wintermute_53, JF1_53, SamScheppers_51, Chancellor_53, OmniCritical_52, Eponine_55, Juliette_55, Slarp_53
- Track 2 : Taquito_53
- Track 3 : Y2_52, Y10_52
- Track 4 : Mitti_53
- Track 5 : Aminay_53
- Track 6 : Boilgate_47

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 14 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chancellor_53, Cheetobro_53, Eponine_55, Fionnbharth_53, JF1_53, Juliette_55, Malthus_54, Mitti_53, OmniCritical_52, Ruthiejr_54, SamScheppers_51, Slarp_53, Taquito_53, Wintermute_53,

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

- Boilgate_47, Y10_52, Y2_52,

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

- Aminay_53,

Summary by start number:

Start 2:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Boilgate_47 (K8),

Start 4:

- Found in 17 of 18 (94.4%) of genes in pham
- Manual Annotations of this start: 14 of 18
- Called 82.4% of time when present
- Phage (with cluster) where this start called: Chancellor_53 (K4), Cheetobro_53 (K4), Eponine_55 (K4), Fionnbharth_53 (K4), JF1_53 (K4), Juliette_55 (K4), Malthus_54 (K4), Mitti_53 (K4), OmniCritical_52 (K4), Ruthiejr_54 (K4), SamScheppers_51 (K4), Slarp_53 (K4), Taquito_53 (K4), Wintermute_53 (K4),

Start 5:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aminay_53 (K7),

Start 6:

- Found in 16 of 18 (88.9%) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Y10_52 (K4), Y2_52 (K4),

Summary by clusters:

There are 3 clusters represented in this pham: K8, K7, K4,

Info for manual annotations of cluster K4:

- Start number 4 was manually annotated 14 times for cluster K4.
- Start number 6 was manually annotated 2 times for cluster K4.

Info for manual annotations of cluster K7:

- Start number 5 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 2 was manually annotated 1 time for cluster K8.

Gene Information:

Gene: Aminay_53 Start: 38053, Stop: 38361, Start Num: 5

Candidate Starts for Aminay_53:

(1, 37966), (3, 38026), (Start: 5 @38053 has 1 MA's), (12, 38251), (14, 38314), (15, 38338),

Gene: Boilgate_47 Start: 37184, Stop: 37525, Start Num: 2

Candidate Starts for Boilgate_47:

(Start: 2 @37184 has 1 MA's), (Start: 4 @37211 has 14 MA's), (10, 37352), (11, 37385), (13, 37463),

Gene: Chancellor_53 Start: 37314, Stop: 37625, Start Num: 4

Candidate Starts for Chancellor_53:

(Start: 4 @37314 has 14 MA's), (Start: 6 @37320 has 2 MA's), (7, 37338), (9, 37440), (11, 37488), (13, 37563),

Gene: Cheetobro_53 Start: 37311, Stop: 37622, Start Num: 4

Candidate Starts for Cheetobro_53:

(Start: 4 @37311 has 14 MA's), (Start: 6 @37317 has 2 MA's), (7, 37335), (9, 37437), (11, 37485), (13, 37560),

Gene: Eponine_55 Start: 38148, Stop: 38459, Start Num: 4

Candidate Starts for Eponine_55:

(Start: 4 @38148 has 14 MA's), (Start: 6 @38154 has 2 MA's), (7, 38172), (9, 38274), (11, 38322), (13, 38397),

Gene: Fionnbharth_53 Start: 37546, Stop: 37857, Start Num: 4

Candidate Starts for Fionnbharth_53:

(Start: 4 @37546 has 14 MA's), (Start: 6 @37552 has 2 MA's), (7, 37570), (9, 37672), (11, 37720), (13, 37795),

Gene: JF1_53 Start: 37463, Stop: 37774, Start Num: 4

Candidate Starts for JF1_53:

(Start: 4 @37463 has 14 MA's), (Start: 6 @37469 has 2 MA's), (7, 37487), (9, 37589), (11, 37637), (13, 37712),

Gene: Juliette_55 Start: 37619, Stop: 37930, Start Num: 4

Candidate Starts for Juliette_55:

(Start: 4 @37619 has 14 MA's), (Start: 6 @37625 has 2 MA's), (7, 37643), (9, 37745), (11, 37793), (13, 37868),

Gene: Malthus_54 Start: 37307, Stop: 37618, Start Num: 4

Candidate Starts for Malthus_54:

(Start: 4 @37307 has 14 MA's), (Start: 6 @37313 has 2 MA's), (7, 37331), (9, 37433), (11, 37481), (13, 37556),

Gene: Mitti_53 Start: 37483, Stop: 37794, Start Num: 4

Candidate Starts for Mitti_53:

(Start: 4 @37483 has 14 MA's), (Start: 6 @37489 has 2 MA's), (7, 37507), (11, 37657), (13, 37732),

Gene: OmniCritical_52 Start: 37292, Stop: 37603, Start Num: 4

Candidate Starts for OmniCritical_52:

(Start: 4 @37292 has 14 MA's), (Start: 6 @37298 has 2 MA's), (7, 37316), (9, 37418), (11, 37466), (13, 37541),

Gene: Ruthiejr_54 Start: 37357, Stop: 37668, Start Num: 4

Candidate Starts for Ruthiejr_54:

(Start: 4 @37357 has 14 MA's), (Start: 6 @37363 has 2 MA's), (7, 37381), (9, 37483), (11, 37531), (13, 37606),

Gene: SamScheppers_51 Start: 37786, Stop: 38097, Start Num: 4

Candidate Starts for SamScheppers_51:

(Start: 4 @37786 has 14 MA's), (Start: 6 @37792 has 2 MA's), (7, 37810), (9, 37912), (11, 37960), (13, 38035),

Gene: Slarp_53 Start: 37314, Stop: 37625, Start Num: 4

Candidate Starts for Slarp_53:

(Start: 4 @37314 has 14 MA's), (Start: 6 @37320 has 2 MA's), (7, 37338), (9, 37440), (11, 37488), (13, 37563),

Gene: Taquito_53 Start: 37642, Stop: 37953, Start Num: 4

Candidate Starts for Taquito_53:

(Start: 4 @37642 has 14 MA's), (Start: 6 @37648 has 2 MA's), (7, 37666), (8, 37726), (9, 37768), (11, 37816), (13, 37891),

Gene: Wintermute_53 Start: 37544, Stop: 37855, Start Num: 4

Candidate Starts for Wintermute_53:

(Start: 4 @37544 has 14 MA's), (Start: 6 @37550 has 2 MA's), (7, 37568), (9, 37670), (11, 37718), (13, 37793),

Gene: Y10_52 Start: 37469, Stop: 37774, Start Num: 6

Candidate Starts for Y10_52:

(Start: 4 @37463 has 14 MA's), (Start: 6 @37469 has 2 MA's), (7, 37487), (9, 37589), (11, 37637), (13, 37712),

Gene: Y2_52 Start: 37469, Stop: 37774, Start Num: 6

Candidate Starts for Y2_52:

(Start: 4 @37463 has 14 MA's), (Start: 6 @37469 has 2 MA's), (7, 37487), (9, 37589), (11, 37637), (13, 37712),