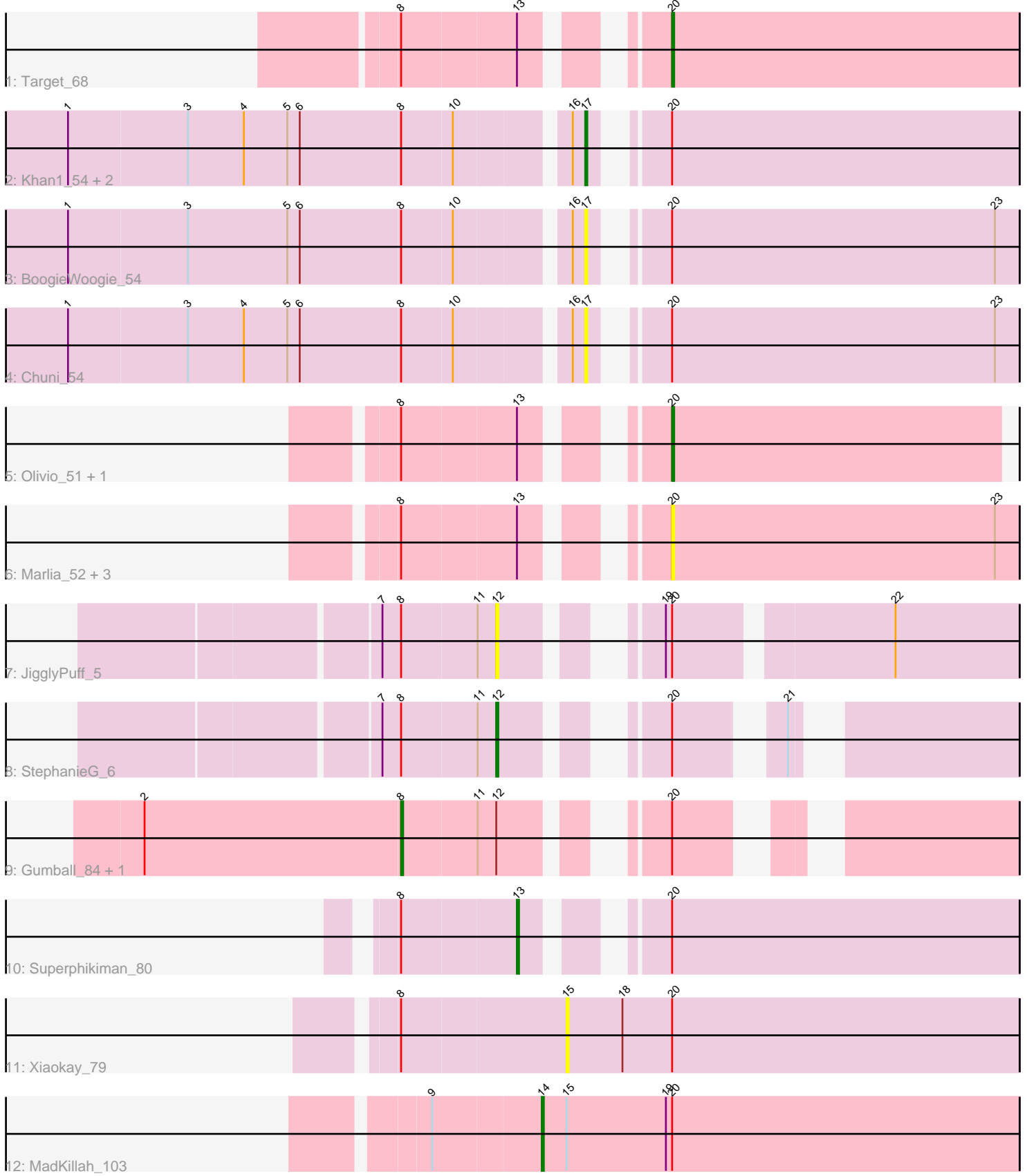


Pham 295120



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 295120 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295120 has 19 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Target_68
- Track 2 : Khan1_54, Gwilliam_54, DoIOn_57
- Track 3 : BoogieWoogie_54
- Track 4 : Chuni_54
- Track 5 : Olivio_51, Heathcliff_51
- Track 6 : Marlia_52, SlippinJimmy_53, SwainyDoc_52, Mulaychimus_52
- Track 7 : JigglyPuff_5
- Track 8 : StephanieG_6
- Track 9 : Gumball_84, SirHarley_86
- Track 10 : Superphikiman_80
- Track 11 : Xiaokay_79
- Track 12 : MadKillah_103

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

The start number called the most often in the published annotations is 20, it was called in 2 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Heathcliff_51, Marlia_52, Mulaychimus_52, Olivio_51, SlippinJimmy_53, SwainyDoc_52, Target_68,

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

- BoogieWoogie_54, Chuni_54, DoIOn_57, Gumball_84, Gwilliam_54, JigglyPuff_5, Khan1_54, MadKillah_103, SirHarley_86, StephanieG_6, Superphikiman_80, Xiaokay_79,

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

-

Summary by start number:

Start 8:

- Found in 18 of 19 (94.7%) of genes in pham

- Manual Annotations of this start: 2 of 8
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Gumball_84 (D1), SirHarley_86 (D1),

Start 12:

- Found in 4 of 19 (21.1%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 50.0% of time when present
- Phage (with cluster) where this start called: JigglyPuff_5 (C1), StephanieG_6 (C1),

Start 13:

- Found in 8 of 19 (42.1%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Superphikiman_80 (J),

Start 14:

- Found in 1 of 19 (5.3%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MadKillah_103 (O),

Start 15:

- Found in 2 of 19 (10.5%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Xiaokay_79 (J),

Start 17:

- Found in 5 of 19 (26.3%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BoogieWoogie_54 (B1), Chuni_54 (B1), DoIOn_57 (B1), Gwilliam_54 (B1), Khan1_54 (B1),

Start 20:

- Found in 19 of 19 (100.0%) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 36.8% of time when present
- Phage (with cluster) where this start called: Heathcliff_51 (B3), Marlia_52 (B3), Mulaychimus_52 (B3), Olivio_51 (B3), SlippinJimmy_53 (B3), SwainyDoc_52 (B3), Target_68 (A1),

Summary by clusters:

There are 7 clusters represented in this pham: J, O, A1, B1, B3, C1, D1,

Info for manual annotations of cluster A1:

- Start number 20 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster B1:

- Start number 17 was manually annotated 1 time for cluster B1.

Info for manual annotations of cluster B3:

- Start number 20 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster C1:

- Start number 12 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster D1:

- Start number 8 was manually annotated 2 times for cluster D1.

Info for manual annotations of cluster J:

- Start number 13 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster O:

- Start number 14 was manually annotated 1 time for cluster O.

Gene Information:

Gene: BoogieWoogie_54 Start: 47559, Stop: 47368, Start Num: 17

Candidate Starts for BoogieWoogie_54:

(1, 47796), (3, 47739), (5, 47691), (6, 47685), (Start: 8 @47637 has 2 MA's), (10, 47613), (16, 47565), (Start: 17 @47559 has 1 MA's), (Start: 20 @47535 has 2 MA's), (23, 47379),

Gene: Chuni_54 Start: 48106, Stop: 47915, Start Num: 17

Candidate Starts for Chuni_54:

(1, 48343), (3, 48286), (4, 48259), (5, 48238), (6, 48232), (Start: 8 @48184 has 2 MA's), (10, 48160), (16, 48112), (Start: 17 @48106 has 1 MA's), (Start: 20 @48082 has 2 MA's), (23, 47926),

Gene: DoIOn_57 Start: 48236, Stop: 48045, Start Num: 17

Candidate Starts for DoIOn_57:

(1, 48473), (3, 48416), (4, 48389), (5, 48368), (6, 48362), (Start: 8 @48314 has 2 MA's), (10, 48290), (16, 48242), (Start: 17 @48236 has 1 MA's), (Start: 20 @48212 has 2 MA's),

Gene: Gumball_84 Start: 60133, Stop: 60360, Start Num: 8

Candidate Starts for Gumball_84:

(2, 60010), (Start: 8 @60133 has 2 MA's), (11, 60169), (Start: 12 @60178 has 1 MA's), (Start: 20 @60232 has 2 MA's),

Gene: Gwilliam_54 Start: 47871, Stop: 47680, Start Num: 17

Candidate Starts for Gwilliam_54:

(1, 48108), (3, 48051), (4, 48024), (5, 48003), (6, 47997), (Start: 8 @47949 has 2 MA's), (10, 47925), (16, 47877), (Start: 17 @47871 has 1 MA's), (Start: 20 @47847 has 2 MA's),

Gene: Heathcliff_51 Start: 45274, Stop: 45107, Start Num: 20

Candidate Starts for Heathcliff_51:

(Start: 8 @45376 has 2 MA's), (Start: 13 @45322 has 1 MA's), (Start: 20 @45274 has 2 MA's),

Gene: JigglyPuff_5 Start: 1776, Stop: 1985, Start Num: 12

Candidate Starts for JigglyPuff_5:

(7, 1722), (Start: 8 @1731 has 2 MA's), (11, 1767), (Start: 12 @1776 has 1 MA's), (19, 1827), (Start: 20 @1830 has 2 MA's), (22, 1926),

Gene: Khan1_54 Start: 47495, Stop: 47304, Start Num: 17
Candidate Starts for Khan1_54:
(1, 47732), (3, 47675), (4, 47648), (5, 47627), (6, 47621), (Start: 8 @47573 has 2 MA's), (10, 47549),
(16, 47501), (Start: 17 @47495 has 1 MA's), (Start: 20 @47471 has 2 MA's),

Gene: MadKillah_103 Start: 62045, Stop: 61815, Start Num: 14
Candidate Starts for MadKillah_103:
(9, 62096), (Start: 14 @62045 has 1 MA's), (15, 62033), (19, 61985), (Start: 20 @61982 has 2 MA's),

Gene: Marlia_52 Start: 45756, Stop: 45589, Start Num: 20
Candidate Starts for Marlia_52:
(Start: 8 @45858 has 2 MA's), (Start: 13 @45804 has 1 MA's), (Start: 20 @45756 has 2 MA's), (23,
45600),

Gene: Mulaychimus_52 Start: 45738, Stop: 45571, Start Num: 20
Candidate Starts for Mulaychimus_52:
(Start: 8 @45840 has 2 MA's), (Start: 13 @45786 has 1 MA's), (Start: 20 @45738 has 2 MA's), (23,
45582),

Gene: Olivio_51 Start: 45617, Stop: 45459, Start Num: 20
Candidate Starts for Olivio_51:
(Start: 8 @45719 has 2 MA's), (Start: 13 @45665 has 1 MA's), (Start: 20 @45617 has 2 MA's),

Gene: SirHarley_86 Start: 60117, Stop: 60344, Start Num: 8
Candidate Starts for SirHarley_86:
(2, 59994), (Start: 8 @60117 has 2 MA's), (11, 60153), (Start: 12 @60162 has 1 MA's), (Start: 20
@60216 has 2 MA's),

Gene: SlippinJimmy_53 Start: 46540, Stop: 46373, Start Num: 20
Candidate Starts for SlippinJimmy_53:
(Start: 8 @46642 has 2 MA's), (Start: 13 @46588 has 1 MA's), (Start: 20 @46540 has 2 MA's), (23,
46384),

Gene: StephanieG_6 Start: 1933, Stop: 2115, Start Num: 12
Candidate Starts for StephanieG_6:
(7, 1879), (Start: 8 @1888 has 2 MA's), (11, 1924), (Start: 12 @1933 has 1 MA's), (Start: 20 @1987
has 2 MA's), (21, 2026),

Gene: Superphikiman_80 Start: 49081, Stop: 48866, Start Num: 13
Candidate Starts for Superphikiman_80:
(Start: 8 @49135 has 2 MA's), (Start: 13 @49081 has 1 MA's), (Start: 20 @49033 has 2 MA's),

Gene: SwainyDoc_52 Start: 45770, Stop: 45603, Start Num: 20
Candidate Starts for SwainyDoc_52:
(Start: 8 @45872 has 2 MA's), (Start: 13 @45818 has 1 MA's), (Start: 20 @45770 has 2 MA's), (23,
45614),

Gene: Target_68 Start: 42412, Stop: 42245, Start Num: 20
Candidate Starts for Target_68:
(Start: 8 @42514 has 2 MA's), (Start: 13 @42460 has 1 MA's), (Start: 20 @42412 has 2 MA's),

Gene: Xiaokay_79 Start: 52707, Stop: 52925, Start Num: 15
Candidate Starts for Xiaokay_79:

(Start: 8 @52629 has 2 MA's), (15, 52707), (18, 52734), (Start: 20 @52758 has 2 MA's),