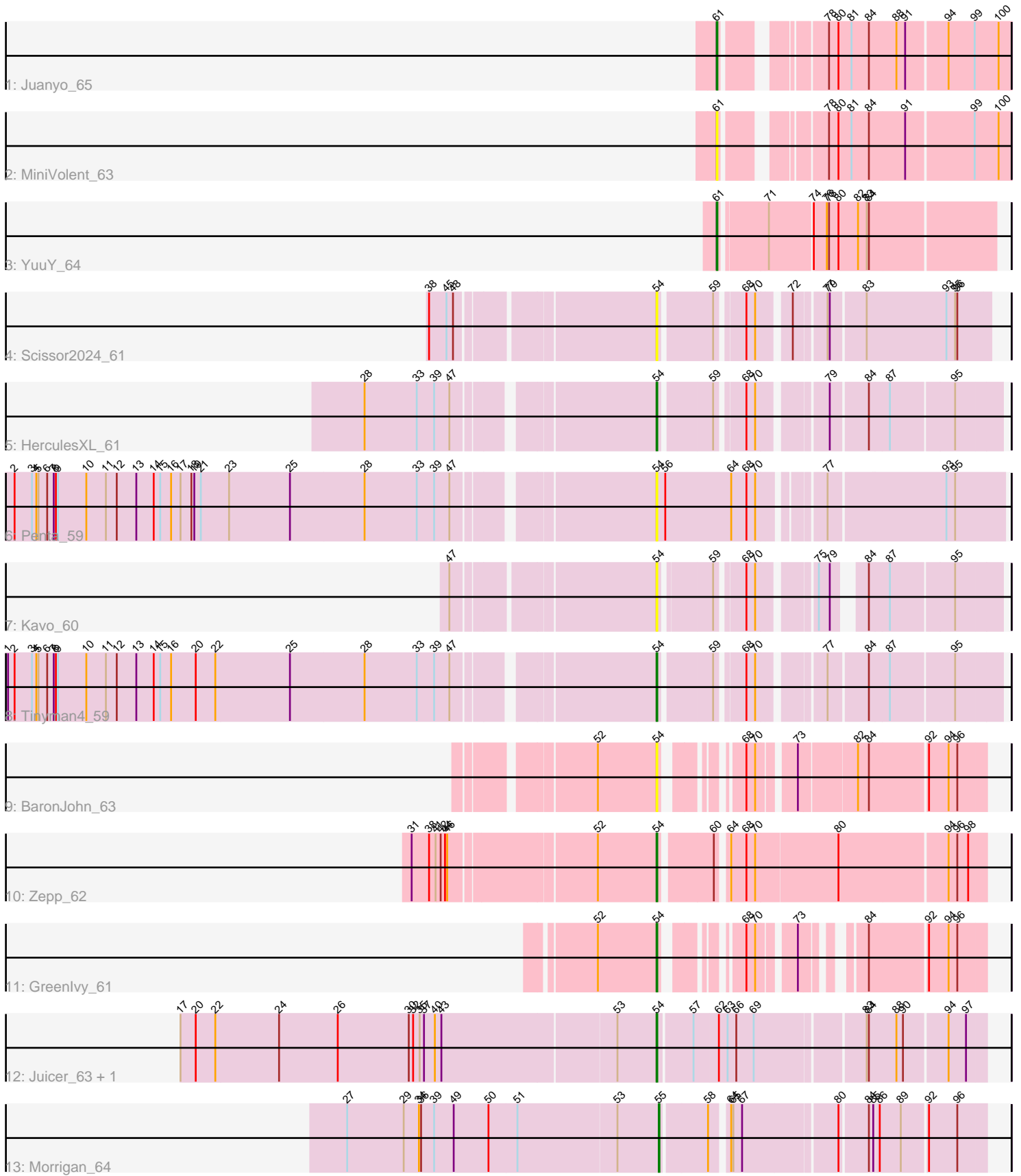


Pham 305412



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 305412 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305412 has 14 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Juanyo_65
- Track 2 : MiniVolent_63
- Track 3 : YuuY_64
- Track 4 : Scissor2024_61
- Track 5 : HerculesXL_61
- Track 6 : Penta_59
- Track 7 : Kavo_60
- Track 8 : Tinyman4_59
- Track 9 : BaronJohn_63
- Track 10 : Zepp_62
- Track 11 : Greenlvy_61
- Track 12 : Juicer_63, Jemerald_63
- Track 13 : Morigan_64

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

The start number called the most often in the published annotations is 54, it was called in 6 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BaronJohn_63, Greenlvy_61, HerculesXL_61, Jemerald_63, Juicer_63, Kavo_60, Penta_59, Scissor2024_61, Tinyman4_59, Zepp_62,

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

-

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

- Juanyo_65, MiniVolent_63, Morigan_64, YuuY_64,

Summary by start number:

Start 54:

- Found in 10 of 14 (71.4%) of genes in pham
- Manual Annotations of this start: 6 of 9

- Called 100.0% of time when present
- Phage (with cluster) where this start called: BaronJohn_63 (EA5), Greenlvy_61 (EA5), HerculesXL_61 (EA11), Jemerald_63 (EA6), Juicer_63 (EA6), Kavo_60 (EA11), Penta_59 (EA11), Scissor2024_61 (EA11), Tinyman4_59 (EA11), Zepp_62 (EA5),

Start 55:

- Found in 1 of 14 (7.1%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Morrigan_64 (EA6),

Start 61:

- Found in 3 of 14 (21.4%) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Juanyo_65 (EA10), MiniVolent_63 (EA10), YuuY_64 (EA10),

Summary by clusters:

There are 4 clusters represented in this pham: EA5, EA11, EA10, EA6,

Info for manual annotations of cluster EA10:

- Start number 61 was manually annotated 2 times for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 54 was manually annotated 2 times for cluster EA11.

Info for manual annotations of cluster EA5:

- Start number 54 was manually annotated 2 times for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 54 was manually annotated 2 times for cluster EA6.
- Start number 55 was manually annotated 1 time for cluster EA6.

Gene Information:

Gene: BaronJohn_63 Start: 39818, Stop: 40186, Start Num: 54

Candidate Starts for BaronJohn_63:

(52, 39737), (Start: 54 @39818 has 6 MA's), (68, 39890), (70, 39902), (73, 39944), (82, 40019), (84, 40034), (92, 40109), (94, 40136), (96, 40148),

Gene: Greenlvy_61 Start: 39603, Stop: 39938, Start Num: 54

Candidate Starts for Greenlvy_61:

(52, 39522), (Start: 54 @39603 has 6 MA's), (68, 39675), (70, 39687), (73, 39729), (84, 39786), (92, 39861), (94, 39888), (96, 39900),

Gene: HerculesXL_61 Start: 38678, Stop: 39088, Start Num: 54

Candidate Starts for HerculesXL_61:

(28, 38312), (33, 38384), (39, 38408), (47, 38429), (Start: 54 @38678 has 6 MA's), (59, 38744), (68, 38777), (70, 38789), (79, 38867), (84, 38915), (87, 38942), (95, 39026),

Gene: Jemerald_63 Start: 40506, Stop: 40928, Start Num: 54

Candidate Starts for Jemerald_63:

(17, 39861), (20, 39882), (22, 39909), (24, 39996), (26, 40077), (30, 40173), (32, 40179), (35, 40188), (37, 40194), (40, 40209), (43, 40218), (53, 40452), (Start: 54 @40506 has 6 MA's), (57, 40551), (62, 40584), (63, 40596), (66, 40608), (69, 40632), (83, 40773), (84, 40776), (88, 40812), (90, 40821), (94, 40878), (97, 40902),

Gene: Juanyo_65 Start: 40605, Stop: 40952, Start Num: 61

Candidate Starts for Juanyo_65:

(Start: 61 @40605 has 2 MA's), (78, 40710), (80, 40722), (81, 40740), (84, 40764), (88, 40800), (91, 40812), (94, 40866), (99, 40902), (100, 40935),

Gene: Juicer_63 Start: 40506, Stop: 40928, Start Num: 54

Candidate Starts for Juicer_63:

(17, 39861), (20, 39882), (22, 39909), (24, 39996), (26, 40077), (30, 40173), (32, 40179), (35, 40188), (37, 40194), (40, 40209), (43, 40218), (53, 40452), (Start: 54 @40506 has 6 MA's), (57, 40551), (62, 40584), (63, 40596), (66, 40608), (69, 40632), (83, 40773), (84, 40776), (88, 40812), (90, 40821), (94, 40878), (97, 40902),

Gene: Kavo_60 Start: 38739, Stop: 39128, Start Num: 54

Candidate Starts for Kavo_60:

(47, 38481), (Start: 54 @38739 has 6 MA's), (59, 38802), (68, 38835), (70, 38847), (75, 38910), (79, 38925), (84, 38955), (87, 38982), (95, 39066),

Gene: MiniVolent_63 Start: 40572, Stop: 40919, Start Num: 61

Candidate Starts for MiniVolent_63:

(Start: 61 @40572 has 2 MA's), (78, 40677), (80, 40689), (81, 40707), (84, 40731), (91, 40779), (99, 40869), (100, 40902),

Gene: Morrigan_64 Start: 39803, Stop: 40204, Start Num: 55

Candidate Starts for Morrigan_64:

(27, 39377), (29, 39455), (34, 39476), (36, 39479), (39, 39497), (49, 39524), (50, 39572), (51, 39611), (53, 39746), (Start: 55 @39803 has 1 MA's), (58, 39863), (64, 39881), (65, 39884), (67, 39896), (80, 40019), (84, 40055), (85, 40061), (86, 40067), (89, 40094), (92, 40127), (96, 40166),

Gene: Penta_59 Start: 38887, Stop: 39330, Start Num: 54

Candidate Starts for Penta_59:

(2, 38041), (3, 38065), (4, 38071), (5, 38074), (6, 38086), (7, 38095), (8, 38098), (9, 38101), (10, 38140), (11, 38167), (12, 38182), (13, 38209), (14, 38233), (15, 38242), (16, 38257), (17, 38269), (18, 38284), (19, 38287), (21, 38296), (23, 38335), (25, 38419), (28, 38521), (33, 38593), (39, 38617), (47, 38638), (Start: 54 @38887 has 6 MA's), (56, 38899), (64, 38989), (68, 39010), (70, 39022), (77, 39094), (93, 39250), (95, 39262),

Gene: Scissor2024_61 Start: 38650, Stop: 39051, Start Num: 54

Candidate Starts for Scissor2024_61:

(38, 38365), (45, 38389), (48, 38398), (Start: 54 @38650 has 6 MA's), (59, 38716), (68, 38749), (70, 38761), (72, 38797), (77, 38836), (79, 38839), (83, 38884), (93, 38992), (95, 39004), (96, 39007),

Gene: Tinyman4_59 Start: 38673, Stop: 39083, Start Num: 54

Candidate Starts for Tinyman4_59:

(1, 37818), (2, 37827), (3, 37851), (4, 37857), (5, 37860), (6, 37872), (7, 37881), (8, 37884), (9, 37887), (10, 37926), (11, 37953), (12, 37968), (13, 37995), (14, 38019), (15, 38028), (16, 38043), (20, 38076), (22, 38103), (25, 38205), (28, 38307), (33, 38379), (39, 38403), (47, 38424), (Start: 54 @38673 has 6 MA's), (59, 38739), (68, 38772), (70, 38784), (77, 38859), (84, 38910), (87, 38937), (95, 39021),

Gene: YuuY_64 Start: 40548, Stop: 40904, Start Num: 61

Candidate Starts for YuuY_64:

(Start: 61 @40548 has 2 MA's), (71, 40605), (74, 40662), (76, 40680), (78, 40683), (80, 40695), (82, 40722), (83, 40734), (84, 40737),

Gene: Zepp_62 Start: 39460, Stop: 39873, Start Num: 54

Candidate Starts for Zepp_62:

(31, 39142), (38, 39166), (41, 39175), (42, 39181), (44, 39187), (46, 39190), (52, 39379), (Start: 54 @39460 has 6 MA's), (60, 39526), (64, 39535), (68, 39556), (70, 39568), (80, 39679), (94, 39823), (96, 39835), (98, 39850),