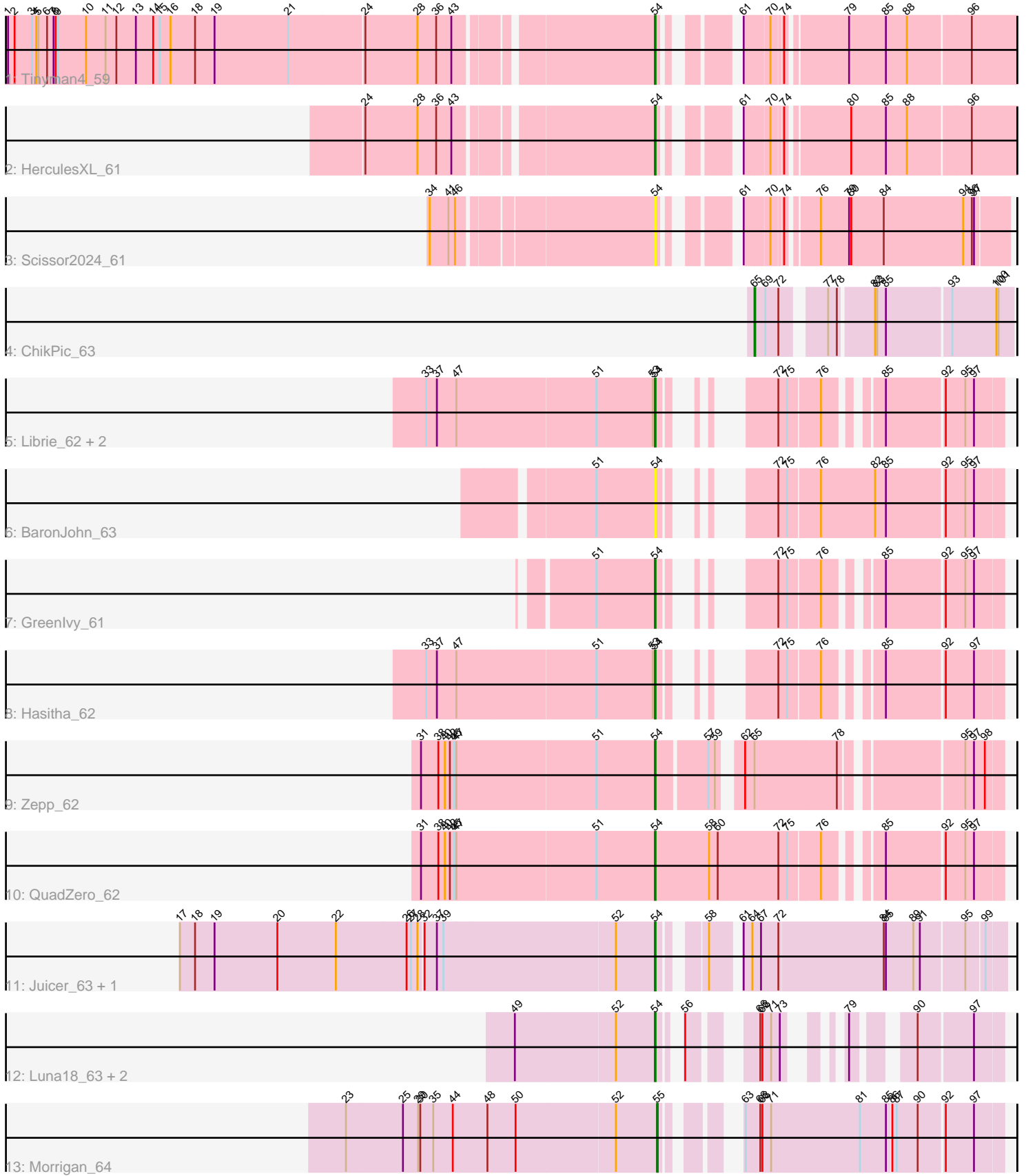


Pham 200666



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 200666 Report

This analysis was run 01/18/25 on database version 583.

Pham number 200666 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Tinyman4_59
- Track 2 : HerculesXL_61
- Track 3 : Scissor2024_61
- Track 4 : ChikPic_63
- Track 5 : Librie_62, Fulton_62, CaptainRex_62
- Track 6 : BaronJohn_63
- Track 7 : Greenlvy_61
- Track 8 : Hasitha_62
- Track 9 : Zepp_62
- Track 10 : QuadZero_62
- Track 11 : Juicer_63, Jemerald_63
- Track 12 : Luna18_63, Chepli_63, KatChan_62
- 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 14 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BaronJohn_63, CaptainRex_62, Chepli_63, Fulton_62, Greenlvy_61, Hasitha_62, HerculesXL_61, Jemerald_63, Juicer_63, KatChan_62, Librie_62, Luna18_63, QuadZero_62, 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:

- ChikPic_63, Morigan_64,

Summary by start number:

Start 54:

- Found in 16 of 18 (88.9%) of genes in pham

- Manual Annotations of this start: 14 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BaronJohn_63 (EA5), CaptainRex_62 (EA5), Chepli_63 (EA6), Fulton_62 (EA5), Greenlvy_61 (EA5), Hasitha_62 (EA5), HerculesXL_61 (EA11), Jemerald_63 (EA6), Juicer_63 (EA6), KatChan_62 (EA6), Librie_62 (EA5), Luna18_63 (EA6), QuadZero_62 (EA5), Scissor2024_61 (EA11), Tinyman4_59 (EA11), Zepp_62 (EA5),

Start 55:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Morrigan_64 (EA6),

Start 65:

- Found in 2 of 18 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 50.0% of time when present
- Phage (with cluster) where this start called: ChikPic_63 (EA2),

Summary by clusters:

There are 4 clusters represented in this pham: EA5, EA2, EA11, EA6,

Info for manual annotations of cluster EA11:

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

Info for manual annotations of cluster EA2:

- Start number 65 was manually annotated 1 time for cluster EA2.

Info for manual annotations of cluster EA5:

- Start number 54 was manually annotated 7 times for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 54 was manually annotated 5 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:

(51, 39737), (Start: 54 @39818 has 14 MA's), (72, 39890), (75, 39902), (76, 39944), (82, 40019), (85, 40034), (92, 40109), (95, 40136), (97, 40148),

Gene: CaptainRex_62 Start: 39228, Stop: 39563, Start Num: 54

Candidate Starts for CaptainRex_62:

(33, 38916), (37, 38931), (47, 38958), (51, 39147), (53, 39225), (Start: 54 @39228 has 14 MA's), (72, 39300), (75, 39312), (76, 39354), (85, 39411), (92, 39486), (95, 39513), (97, 39525),

Gene: Chepli_63 Start: 39731, Stop: 40042, Start Num: 54

Candidate Starts for Chepli_63:

(49, 39542), (52, 39677), (Start: 54 @39731 has 14 MA's), (56, 39746), (66, 39809), (68, 39812), (71, 39824), (73, 39836), (79, 39872), (90, 39932), (97, 40004),

Gene: ChikPic_63 Start: 39809, Stop: 40126, Start Num: 65

Candidate Starts for ChikPic_63:

(Start: 65 @39809 has 1 MA's), (69, 39824), (72, 39842), (77, 39890), (78, 39902), (82, 39947), (83, 39950), (85, 39962), (93, 40043), (100, 40103), (101, 40106),

Gene: Fulton_62 Start: 39229, Stop: 39564, Start Num: 54

Candidate Starts for Fulton_62:

(33, 38917), (37, 38932), (47, 38959), (51, 39148), (53, 39226), (Start: 54 @39229 has 14 MA's), (72, 39301), (75, 39313), (76, 39355), (85, 39412), (92, 39487), (95, 39514), (97, 39526),

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

Candidate Starts for Greenlvy_61:

(51, 39522), (Start: 54 @39603 has 14 MA's), (72, 39675), (75, 39687), (76, 39729), (85, 39786), (92, 39861), (95, 39888), (97, 39900),

Gene: Hasitha_62 Start: 39239, Stop: 39574, Start Num: 54

Candidate Starts for Hasitha_62:

(33, 38927), (37, 38942), (47, 38969), (51, 39158), (53, 39236), (Start: 54 @39239 has 14 MA's), (72, 39311), (75, 39323), (76, 39365), (85, 39422), (92, 39497), (97, 39536),

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

Candidate Starts for HerculesXL_61:

(24, 38312), (28, 38384), (36, 38408), (43, 38429), (Start: 54 @38678 has 14 MA's), (61, 38744), (70, 38777), (74, 38789), (80, 38867), (85, 38915), (88, 38942), (96, 39026),

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

Candidate Starts for Jemerald_63:

(17, 39861), (18, 39882), (19, 39909), (20, 39996), (22, 40077), (26, 40173), (27, 40179), (28, 40188), (32, 40194), (37, 40209), (39, 40218), (52, 40452), (Start: 54 @40506 has 14 MA's), (58, 40551), (61, 40584), (64, 40596), (67, 40608), (72, 40632), (84, 40773), (85, 40776), (89, 40812), (91, 40821), (95, 40878), (99, 40902),

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

Candidate Starts for Juicer_63:

(17, 39861), (18, 39882), (19, 39909), (20, 39996), (22, 40077), (26, 40173), (27, 40179), (28, 40188), (32, 40194), (37, 40209), (39, 40218), (52, 40452), (Start: 54 @40506 has 14 MA's), (58, 40551), (61, 40584), (64, 40596), (67, 40608), (72, 40632), (84, 40773), (85, 40776), (89, 40812), (91, 40821), (95, 40878), (99, 40902),

Gene: KatChan_62 Start: 39748, Stop: 40059, Start Num: 54

Candidate Starts for KatChan_62:

(49, 39559), (52, 39694), (Start: 54 @39748 has 14 MA's), (56, 39763), (66, 39826), (68, 39829), (71, 39841), (73, 39853), (79, 39889), (90, 39949), (97, 40021),

Gene: Librie_62 Start: 39228, Stop: 39563, Start Num: 54

Candidate Starts for Librie_62:

(33, 38916), (37, 38931), (47, 38958), (51, 39147), (53, 39225), (Start: 54 @39228 has 14 MA's), (72, 39300), (75, 39312), (76, 39354), (85, 39411), (92, 39486), (95, 39513), (97, 39525),

Gene: Luna18_63 Start: 39748, Stop: 40059, Start Num: 54

Candidate Starts for Luna18_63:

(49, 39559), (52, 39694), (Start: 54 @39748 has 14 MA's), (56, 39763), (66, 39826), (68, 39829), (71, 39841), (73, 39853), (79, 39889), (90, 39949), (97, 40021),

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

Candidate Starts for Morrigan_64:

(23, 39377), (25, 39455), (29, 39476), (30, 39479), (35, 39497), (44, 39524), (48, 39572), (50, 39611), (52, 39746), (Start: 55 @39803 has 1 MA's), (63, 39863), (66, 39881), (68, 39884), (71, 39896), (81, 40019), (85, 40055), (86, 40061), (87, 40067), (90, 40094), (92, 40127), (97, 40166),

Gene: QuadZero_62 Start: 39331, Stop: 39765, Start Num: 54

Candidate Starts for QuadZero_62:

(31, 39013), (38, 39037), (40, 39046), (42, 39052), (45, 39058), (47, 39061), (51, 39250), (Start: 54 @39331 has 14 MA's), (58, 39406), (60, 39418), (72, 39502), (75, 39514), (76, 39556), (85, 39613), (92, 39688), (95, 39715), (97, 39727),

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

Candidate Starts for Scissor2024_61:

(34, 38365), (41, 38389), (46, 38398), (Start: 54 @38650 has 14 MA's), (61, 38716), (70, 38749), (74, 38761), (76, 38797), (79, 38836), (80, 38839), (84, 38884), (94, 38992), (96, 39004), (97, 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), (18, 38076), (19, 38103), (21, 38205), (24, 38307), (28, 38379), (36, 38403), (43, 38424), (Start: 54 @38673 has 14 MA's), (61, 38739), (70, 38772), (74, 38784), (79, 38859), (85, 38910), (88, 38937), (96, 39021),

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

Candidate Starts for Zepp_62:

(31, 39142), (38, 39166), (40, 39175), (42, 39181), (45, 39187), (47, 39190), (51, 39379), (Start: 54 @39460 has 14 MA's), (57, 39526), (59, 39535), (62, 39556), (Start: 65 @39568 has 1 MA's), (78, 39679), (95, 39823), (97, 39835), (98, 39850),