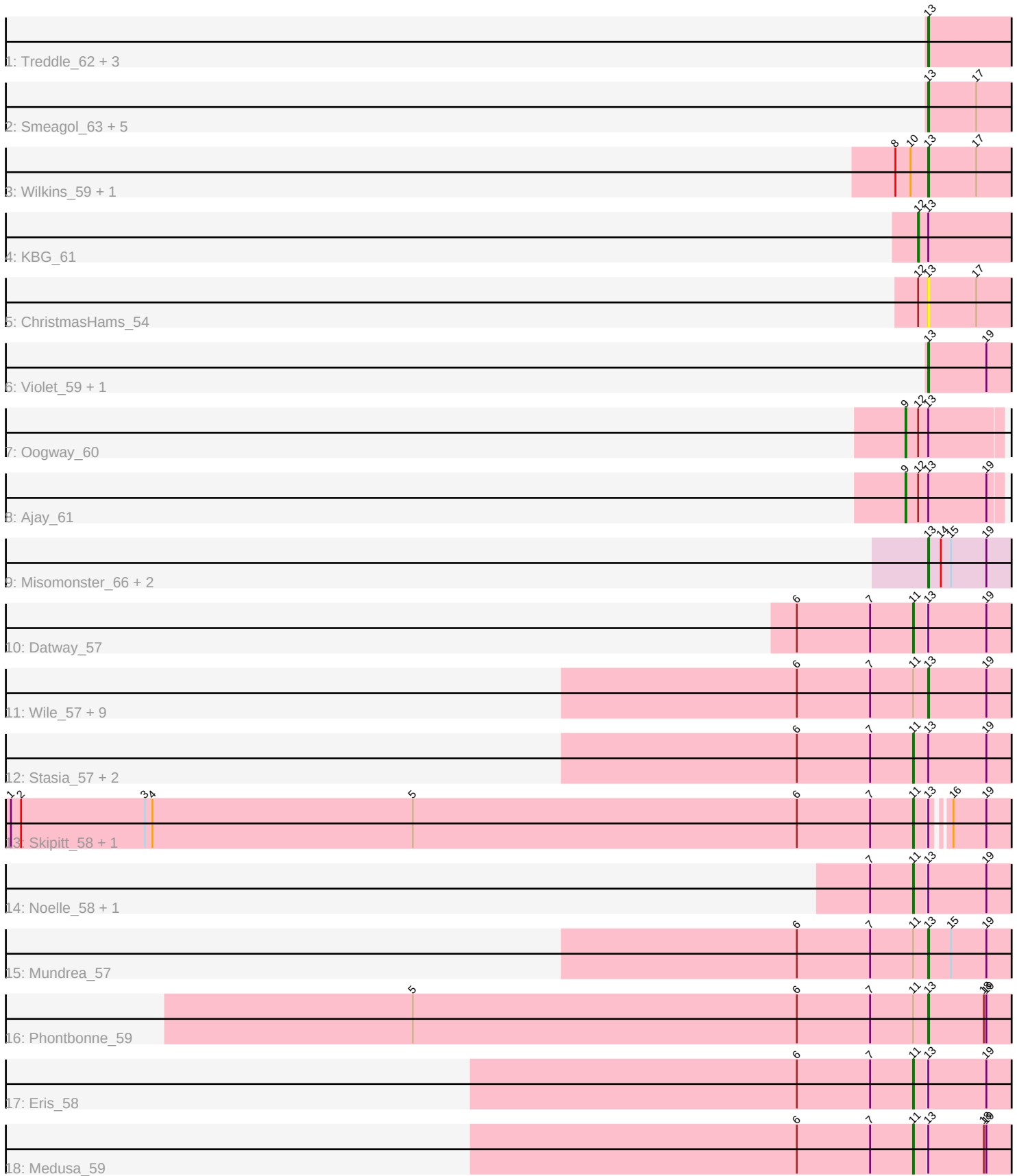




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 280593 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280593 has 43 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Treddle_62, Monet_64, ILeeKay_63, Rhynn_59
- Track 2 : Smeagol_63, Slagathor_63, Rutherford_63, Manatee_61, Arcanine_63, Anglerfish_61
- Track 3 : Wilkins_59, Topgun_59
- Track 4 : KBG_61
- Track 5 : ChristmasHams_54
- Track 6 : Violet_59, Hami1_56
- Track 7 : Oogway_60
- Track 8 : Ajay_61
- Track 9 : Misomonster_66, Louie6_64, TinyPebbles_64
- Track 10 : Datway_57
- Track 11 : Wile_57, Badger_56, AbbysRanger_57, Perplexer_57, Katalie136_57, PetiteSangsue_57, Morpher26_57, Achebe_56, Cici_57, Shygu2_57
- Track 12 : Stasia_57, Bumblebee11_56, Backyardigan_55
- Track 13 : Skipitt_58, RockieBear_57
- Track 14 : Noelle_58, Xena_56
- Track 15 : Mundrea_57
- Track 16 : Phontbonne_59
- Track 17 : Eris_58
- Track 18 : Medusa_59

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

The start number called the most often in the published annotations is 13, it was called in 29 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbysRanger_57, Achebe_56, Anglerfish_61, Arcanine_63, Badger_56, ChristmasHams_54, Cici_57, Hami1_56, ILeeKay_63, Katalie136_57, Louie6_64, Manatee_61, Misomonster_66, Monet_64, Morpher26_57, Mundrea_57, Perplexer_57, PetiteSangsue_57, Phontbonne_59, Rhynn_59, Rutherford_63, Shygu2_57, Slagathor_63, Smeagol_63, TinyPebbles_64, Topgun_59, Treddle_62, Violet_59, Wile_57, Wilkins_59,

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

- Ajay_61, Backyardigan_55, Bumblebee11_56, Datway_57, Eris_58, KBG_61, Medusa_59, Noelle_58, Oogway_60, RockieBear_57, Skipitt_58, Stasia_57, Xena_56,

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

-

Summary by start number:

Start 9:

- Found in 2 of 43 (4.7%) of genes in pham
- Manual Annotations of this start: 2 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ajay_61 (A1), Oogway_60 (A1),

Start 11:

- Found in 22 of 43 (51.2%) of genes in pham
- Manual Annotations of this start: 9 of 41
- Called 45.5% of time when present
- Phage (with cluster) where this start called: Backyardigan_55 (A4), Bumblebee11_56 (A4), Datway_57 (A4), Eris_58 (A4), Medusa_59 (A4), Noelle_58 (A4), RockieBear_57 (A4), Skipitt_58 (A4), Stasia_57 (A4), Xena_56 (A4),

Start 12:

- Found in 4 of 43 (9.3%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 25.0% of time when present
- Phage (with cluster) where this start called: KBG_61 (A1),

Start 13:

- Found in 43 of 43 (100.0%) of genes in pham
- Manual Annotations of this start: 29 of 41
- Called 69.8% of time when present
- Phage (with cluster) where this start called: AbbysRanger_57 (A4), Achebe_56 (A4), Anglerfish_61 (A1), Arcanine_63 (A1), Badger_56 (A4), ChristmasHams_54 (A1), Cici_57 (A4), Hami1_56 (A1), ILeeKay_63 (A1), Katalie136_57 (A4), Louie6_64 (A3), Manatee_61 (A1), Misomonster_66 (A3), Monet_64 (A1), Morpher26_57 (A4), Mundrea_57 (A4), Perplexer_57 (A4), PetiteSangsue_57 (A4), Phontbonne_59 (A4), Rhynn_59 (A1), Rutherferd_63 (A1), Shygu2_57 (A4), Slagathor_63 (A1), Smeagol_63 (A1), TinyPebbles_64 (A3), Topgun_59 (A1), Treddle_62 (A1), Violet_59 (A1), Wile_57 (A4), Wilkins_59 (A1),

Summary by clusters:

There are 3 clusters represented in this pham: A1, A3, A4,

Info for manual annotations of cluster A1:

- Start number 9 was manually annotated 2 times for cluster A1.
- Start number 12 was manually annotated 1 time for cluster A1.
- Start number 13 was manually annotated 14 times for cluster A1.

Info for manual annotations of cluster A3:

- Start number 13 was manually annotated 3 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 11 was manually annotated 9 times for cluster A4.
- Start number 13 was manually annotated 12 times for cluster A4.

Gene Information:

Gene: AbbysRanger_57 Start: 38899, Stop: 38798, Start Num: 13

Candidate Starts for AbbysRanger_57:

(6, 39052), (7, 38965), (Start: 11 @38914 has 9 MA's), (Start: 13 @38899 has 29 MA's), (19, 38830),

Gene: Achebe_56 Start: 38882, Stop: 38781, Start Num: 13

Candidate Starts for Achebe_56:

(6, 39035), (7, 38948), (Start: 11 @38897 has 9 MA's), (Start: 13 @38882 has 29 MA's), (19, 38813),

Gene: Ajay_61 Start: 41049, Stop: 40936, Start Num: 9

Candidate Starts for Ajay_61:

(Start: 9 @41049 has 2 MA's), (Start: 12 @41034 has 1 MA's), (Start: 13 @41022 has 29 MA's), (19, 40953),

Gene: Anglerfish_61 Start: 41309, Stop: 41190, Start Num: 13

Candidate Starts for Anglerfish_61:

(Start: 13 @41309 has 29 MA's), (17, 41252),

Gene: Arcanine_63 Start: 42033, Stop: 41914, Start Num: 13

Candidate Starts for Arcanine_63:

(Start: 13 @42033 has 29 MA's), (17, 41976),

Gene: Backyardigan_55 Start: 38930, Stop: 38814, Start Num: 11

Candidate Starts for Backyardigan_55:

(6, 39068), (7, 38981), (Start: 11 @38930 has 9 MA's), (Start: 13 @38915 has 29 MA's), (19, 38846),

Gene: Badger_56 Start: 38883, Stop: 38782, Start Num: 13

Candidate Starts for Badger_56:

(6, 39036), (7, 38949), (Start: 11 @38898 has 9 MA's), (Start: 13 @38883 has 29 MA's), (19, 38814),

Gene: Bumblebee11_56 Start: 38900, Stop: 38784, Start Num: 11

Candidate Starts for Bumblebee11_56:

(6, 39038), (7, 38951), (Start: 11 @38900 has 9 MA's), (Start: 13 @38885 has 29 MA's), (19, 38816),

Gene: ChristmasHams_54 Start: 38077, Stop: 37958, Start Num: 13

Candidate Starts for ChristmasHams_54:

(Start: 12 @38089 has 1 MA's), (Start: 13 @38077 has 29 MA's), (17, 38020),

Gene: Cici_57 Start: 38900, Stop: 38799, Start Num: 13

Candidate Starts for Cici_57:

(6, 39053), (7, 38966), (Start: 11 @38915 has 9 MA's), (Start: 13 @38900 has 29 MA's), (19, 38831),

Gene: Datway_57 Start: 38886, Stop: 38770, Start Num: 11

Candidate Starts for Datway_57:

(6, 39024), (7, 38937), (Start: 11 @38886 has 9 MA's), (Start: 13 @38871 has 29 MA's), (19, 38802),

Gene: Eris_58 Start: 39075, Stop: 38959, Start Num: 11

Candidate Starts for Eris_58:

(6, 39213), (7, 39126), (Start: 11 @39075 has 9 MA's), (Start: 13 @39060 has 29 MA's), (19, 38991),

Gene: Hami1_56 Start: 36682, Stop: 36563, Start Num: 13

Candidate Starts for Hami1_56:

(Start: 13 @36682 has 29 MA's), (19, 36613),

Gene: ILeeKay_63 Start: 40898, Stop: 40779, Start Num: 13

Candidate Starts for ILeeKay_63:

(Start: 13 @40898 has 29 MA's),

Gene: KBG_61 Start: 42353, Stop: 42222, Start Num: 12

Candidate Starts for KBG_61:

(Start: 12 @42353 has 1 MA's), (Start: 13 @42341 has 29 MA's),

Gene: Katalie136_57 Start: 38885, Stop: 38784, Start Num: 13

Candidate Starts for Katalie136_57:

(6, 39038), (7, 38951), (Start: 11 @38900 has 9 MA's), (Start: 13 @38885 has 29 MA's), (19, 38816),

Gene: Louie6_64 Start: 39735, Stop: 39631, Start Num: 13

Candidate Starts for Louie6_64:

(Start: 13 @39735 has 29 MA's), (14, 39720), (15, 39708), (19, 39666),

Gene: Manatee_61 Start: 40655, Stop: 40536, Start Num: 13

Candidate Starts for Manatee_61:

(Start: 13 @40655 has 29 MA's), (17, 40598),

Gene: Medusa_59 Start: 39074, Stop: 38958, Start Num: 11

Candidate Starts for Medusa_59:

(6, 39212), (7, 39125), (Start: 11 @39074 has 9 MA's), (Start: 13 @39059 has 29 MA's), (18, 38993), (19, 38990),

Gene: Misomonster_66 Start: 39733, Stop: 39629, Start Num: 13

Candidate Starts for Misomonster_66:

(Start: 13 @39733 has 29 MA's), (14, 39718), (15, 39706), (19, 39664),

Gene: Monet_64 Start: 42789, Stop: 42670, Start Num: 13

Candidate Starts for Monet_64:

(Start: 13 @42789 has 29 MA's),

Gene: Morpher26_57 Start: 38906, Stop: 38805, Start Num: 13

Candidate Starts for Morpher26_57:

(6, 39059), (7, 38972), (Start: 11 @38921 has 9 MA's), (Start: 13 @38906 has 29 MA's), (19, 38837),

Gene: Mundrea_57 Start: 38898, Stop: 38797, Start Num: 13

Candidate Starts for Mundrea_57:

(6, 39051), (7, 38964), (Start: 11 @38913 has 9 MA's), (Start: 13 @38898 has 29 MA's), (15, 38871), (19, 38829),

Gene: Noelle_58 Start: 39222, Stop: 39106, Start Num: 11

Candidate Starts for Noelle_58:

(7, 39273), (Start: 11 @39222 has 9 MA's), (Start: 13 @39207 has 29 MA's), (19, 39138),

Gene: Oogway_60 Start: 41660, Stop: 41547, Start Num: 9

Candidate Starts for Oogway_60:

(Start: 9 @41660 has 2 MA's), (Start: 12 @41645 has 1 MA's), (Start: 13 @41633 has 29 MA's),

Gene: Perplexer_57 Start: 38882, Stop: 38781, Start Num: 13

Candidate Starts for Perplexer_57:

(6, 39035), (7, 38948), (Start: 11 @38897 has 9 MA's), (Start: 13 @38882 has 29 MA's), (19, 38813),

Gene: PetiteSangsue_57 Start: 38885, Stop: 38784, Start Num: 13

Candidate Starts for PetiteSangsue_57:

(6, 39038), (7, 38951), (Start: 11 @38900 has 9 MA's), (Start: 13 @38885 has 29 MA's), (19, 38816),

Gene: Phontbonne_59 Start: 38951, Stop: 38850, Start Num: 13

Candidate Starts for Phontbonne_59:

(5, 39560), (6, 39104), (7, 39017), (Start: 11 @38966 has 9 MA's), (Start: 13 @38951 has 29 MA's), (18, 38885), (19, 38882),

Gene: Rhynn_59 Start: 40477, Stop: 40358, Start Num: 13

Candidate Starts for Rhynn_59:

(Start: 13 @40477 has 29 MA's),

Gene: RockieBear_57 Start: 39060, Stop: 38959, Start Num: 11

Candidate Starts for RockieBear_57:

(1, 40131), (2, 40119), (3, 39972), (4, 39963), (5, 39654), (6, 39198), (7, 39111), (Start: 11 @39060 has 9 MA's), (Start: 13 @39045 has 29 MA's), (16, 39030), (19, 38991),

Gene: Rutherferd_63 Start: 42293, Stop: 42174, Start Num: 13

Candidate Starts for Rutherferd_63:

(Start: 13 @42293 has 29 MA's), (17, 42236),

Gene: Shygu2_57 Start: 38936, Stop: 38835, Start Num: 13

Candidate Starts for Shygu2_57:

(6, 39089), (7, 39002), (Start: 11 @38951 has 9 MA's), (Start: 13 @38936 has 29 MA's), (19, 38867),

Gene: Skipitt_58 Start: 39054, Stop: 38953, Start Num: 11

Candidate Starts for Skipitt_58:

(1, 40125), (2, 40113), (3, 39966), (4, 39957), (5, 39648), (6, 39192), (7, 39105), (Start: 11 @39054 has 9 MA's), (Start: 13 @39039 has 29 MA's), (16, 39024), (19, 38985),

Gene: Slagathor_63 Start: 42929, Stop: 42810, Start Num: 13

Candidate Starts for Slagathor_63:

(Start: 13 @42929 has 29 MA's), (17, 42872),

Gene: Smeagol_63 Start: 42752, Stop: 42633, Start Num: 13

Candidate Starts for Smeagol_63:

(Start: 13 @42752 has 29 MA's), (17, 42695),

Gene: Stasia_57 Start: 38828, Stop: 38709, Start Num: 11

Candidate Starts for Stasia_57:

(6, 38966), (7, 38879), (Start: 11 @38828 has 9 MA's), (Start: 13 @38810 has 29 MA's), (19, 38741),

Gene: TinyPebbles_64 Start: 39736, Stop: 39632, Start Num: 13
Candidate Starts for TinyPebbles_64:
(Start: 13 @39736 has 29 MA's), (14, 39721), (15, 39709), (19, 39667),

Gene: Topgun_59 Start: 39781, Stop: 39662, Start Num: 13
Candidate Starts for Topgun_59:
(8, 39820), (10, 39802), (Start: 13 @39781 has 29 MA's), (17, 39724),

Gene: Treddle_62 Start: 42301, Stop: 42182, Start Num: 13
Candidate Starts for Treddle_62:
(Start: 13 @42301 has 29 MA's),

Gene: Violet_59 Start: 42659, Stop: 42540, Start Num: 13
Candidate Starts for Violet_59:
(Start: 13 @42659 has 29 MA's), (19, 42590),

Gene: Wile_57 Start: 38916, Stop: 38815, Start Num: 13
Candidate Starts for Wile_57:
(6, 39069), (7, 38982), (Start: 11 @38931 has 9 MA's), (Start: 13 @38916 has 29 MA's), (19, 38847),

Gene: Wilkins_59 Start: 39711, Stop: 39592, Start Num: 13
Candidate Starts for Wilkins_59:
(8, 39750), (10, 39732), (Start: 13 @39711 has 29 MA's), (17, 39654),

Gene: Xena_56 Start: 38897, Stop: 38781, Start Num: 11
Candidate Starts for Xena_56:
(7, 38948), (Start: 11 @38897 has 9 MA's), (Start: 13 @38882 has 29 MA's), (19, 38813),