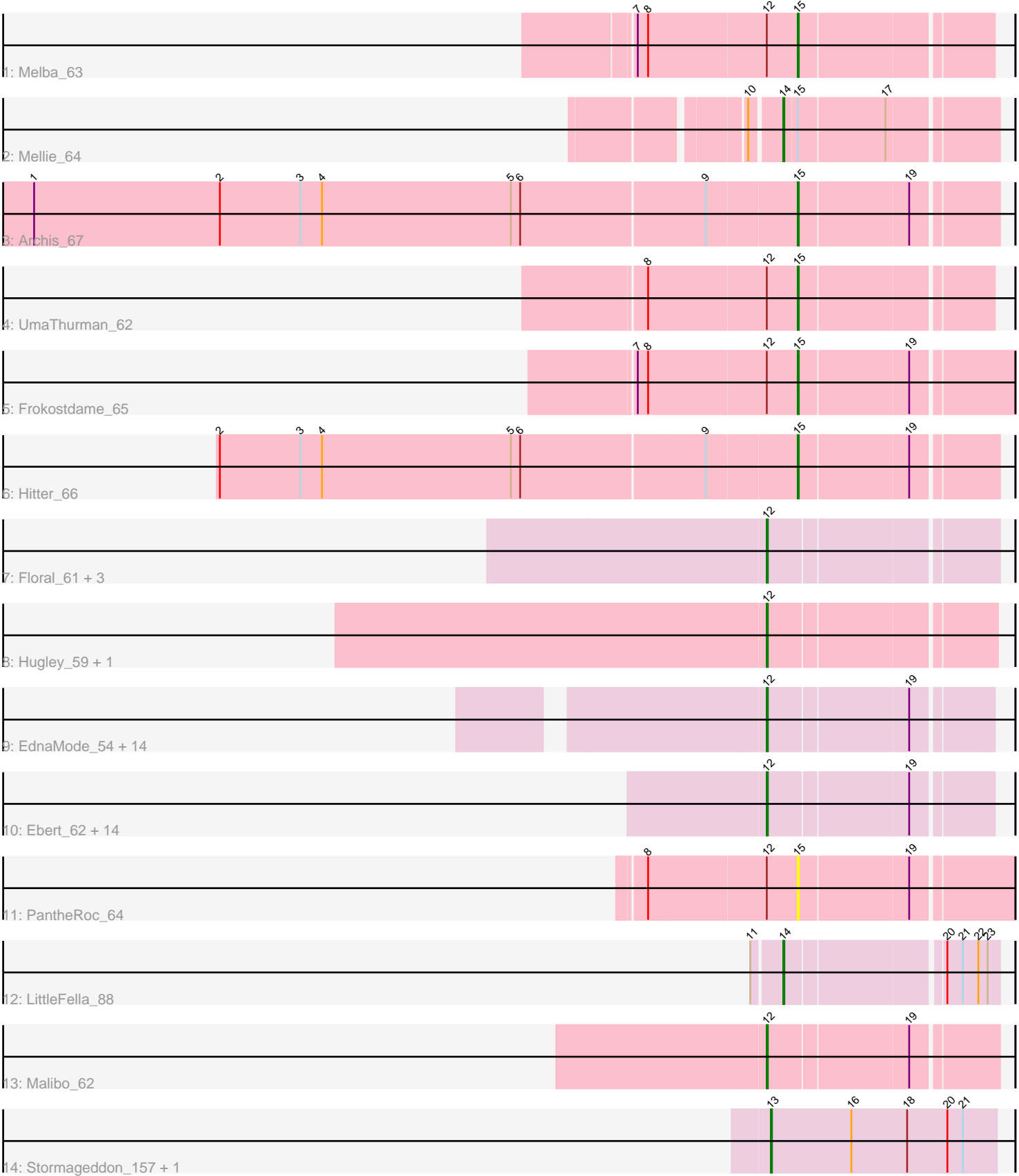


Pham 85801



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 85801 Report

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

Pham number 85801 has 47 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Melba_63
- Track 2 : Mellie_64
- Track 3 : Archis_67
- Track 4 : UmaThurman_62
- Track 5 : Frokostdame_65
- Track 6 : Hitter_66
- Track 7 : Floral_61, EMsquaredA_60, Marteena_59, Pollux_63
- Track 8 : Hugley_59, Herod_61
- Track 9 : EdnaMode_54, Suscepit_60, Antonio_60, Eudoria_60, Pickett_53, Manasvini_61, Bialota_58, Bosnia_59, Trumpet_60, Polly_57, Neobush_60, Tayonia_60, Zameen_60, Kita_61, Zirinka_57
- Track 10 : Ebert_62, Whiteclaw_58, Nettuno_54, Lamberg_54, Haley23_58, Cynthia_58, Clap_58, Bjanes7_55, TuertoX_58, GemG_58, Savage_58, Gizermo_58, Mocha12_58, Sahara_57, Sproutie_58
- Track 11 : PantheRoc_64
- Track 12 : LittleFella_88
- Track 13 : Malibo_62
- Track 14 : Stormageddon_157, RedWattleHog_156

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

The start number called the most often in the published annotations is 12, it was called in 35 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antonio_60, Bialota_58, Bjanes7_55, Bosnia_59, Clap_58, Cynthia_58, EMsquaredA_60, Ebert_62, EdnaMode_54, Eudoria_60, Floral_61, GemG_58, Gizermo_58, Haley23_58, Herod_61, Hugley_59, Kita_61, Lamberg_54, Malibo_62, Manasvini_61, Marteena_59, Mocha12_58, Neobush_60, Nettuno_54, Pickett_53, Pollux_63, Polly_57, Sahara_57, Savage_58, Sproutie_58, Suscepit_60, Tayonia_60, Trumpet_60, TuertoX_58, Whiteclaw_58, Zameen_60, Zirinka_57,

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

- Frokostdame_65, Melba_63, PantheRoc_64, UmaThurman_62,

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

- Archis_67, Hitter_66, LittleFella_88, Mellie_64, RedWattleHog_156, Stormageddon_157,

Summary by start number:

Start 12:

- Found in 41 of 47 (87.2%) of genes in pham
- Manual Annotations of this start: 35 of 44
- Called 90.2% of time when present
- Phage (with cluster) where this start called: Antonio_60 (CZ1), Bialota_58 (CZ1), Bjaness_55 (CZ2), Bosnia_59 (CZ1), Clap_58 (CZ2), Cynthia_58 (CZ2), EMSquaredA_60 (CY1), Ebert_62 (CZ2), EdnaMode_54 (CZ2), Eudoria_60 (CZ1), Floral_61 (CY1), GemG_58 (CZ2), Gizermo_58 (CZ2), Haley23_58 (CZ2), Herod_61 (CZ1), Hugley_59 (CZ1), Kita_61 (CZ1), Lamberg_54 (CZ2), Malibo_62 (DW), Manasvini_61 (CZ1), Marteena_59 (CY1), Mocha12_58 (CZ2), Neobush_60 (CZ1), Nettuno_54 (CZ2), Pickett_53 (CZ2), Pollux_63 (CY1), Polly_57 (CZ1), Sahara_57 (CZ2), Savage_58 (CZ2), Sproutie_58 (CZ2), Suscepit_60 (CZ1), Tayonia_60 (CZ1), Trumpet_60 (CZ1), TuertoX_58 (CZ2), Whiteclaw_58 (CZ2), Zameen_60 (CZ1), Zirinka_57 (CZ1),

Start 13:

- Found in 2 of 47 (4.3%) of genes in pham
- Manual Annotations of this start: 2 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RedWattleHog_156 (DX), Stormageddon_157 (DX),

Start 14:

- Found in 2 of 47 (4.3%) of genes in pham
- Manual Annotations of this start: 2 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LittleFella_88 (DG2), Mellie_64 (CV),

Start 15:

- Found in 7 of 47 (14.9%) of genes in pham
- Manual Annotations of this start: 5 of 44
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Archis_67 (CV), Frokostdame_65 (CV), Hitter_66 (CV), Melba_63 (CV), PantheRoc_64 (CZ3), UmaThurman_62 (CV),

Summary by clusters:

There are 8 clusters represented in this pham: CY1, CZ2, CZ3, CZ1, DG2, DX, DW, CV,

Info for manual annotations of cluster CV:

- Start number 14 was manually annotated 1 time for cluster CV.
- Start number 15 was manually annotated 5 times for cluster CV.

Info for manual annotations of cluster CY1:

- Start number 12 was manually annotated 4 times for cluster CY1.

Info for manual annotations of cluster CZ1:

- Start number 12 was manually annotated 14 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 12 was manually annotated 16 times for cluster CZ2.

Info for manual annotations of cluster DG2:

- Start number 14 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DW:

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

Info for manual annotations of cluster DX:

- Start number 13 was manually annotated 2 times for cluster DX.

Gene Information:

Gene: Antonio_60 Start: 41482, Stop: 41682, Start Num: 12

Candidate Starts for Antonio_60:

(Start: 12 @41482 has 35 MA's), (19, 41611),

Gene: Archis_67 Start: 41059, Stop: 41238, Start Num: 15

Candidate Starts for Archis_67:

(1, 40330), (2, 40510), (3, 40588), (4, 40609), (5, 40792), (6, 40801), (9, 40975), (Start: 15 @41059 has 5 MA's), (19, 41161),

Gene: Bialota_58 Start: 42114, Stop: 42314, Start Num: 12

Candidate Starts for Bialota_58:

(Start: 12 @42114 has 35 MA's), (19, 42243),

Gene: Bjanes7_55 Start: 37861, Stop: 38061, Start Num: 12

Candidate Starts for Bjanes7_55:

(Start: 12 @37861 has 35 MA's), (19, 37990),

Gene: Bosnia_59 Start: 43827, Stop: 44027, Start Num: 12

Candidate Starts for Bosnia_59:

(Start: 12 @43827 has 35 MA's), (19, 43956),

Gene: Clap_58 Start: 38040, Stop: 38240, Start Num: 12

Candidate Starts for Clap_58:

(Start: 12 @38040 has 35 MA's), (19, 38169),

Gene: Cynthia_58 Start: 38038, Stop: 38238, Start Num: 12

Candidate Starts for Cynthia_58:

(Start: 12 @38038 has 35 MA's), (19, 38167),

Gene: EMsquaredA_60 Start: 42156, Stop: 42362, Start Num: 12

Candidate Starts for EMsquaredA_60:

(Start: 12 @42156 has 35 MA's),

Gene: Ebert_62 Start: 38472, Stop: 38672, Start Num: 12

Candidate Starts for Ebert_62:

(Start: 12 @38472 has 35 MA's), (19, 38601),

Gene: EdnaMode_54 Start: 37303, Stop: 37503, Start Num: 12

Candidate Starts for EdnaMode_54:

(Start: 12 @37303 has 35 MA's), (19, 37432),

Gene: Eudoria_60 Start: 41482, Stop: 41682, Start Num: 12

Candidate Starts for Eudoria_60:

(Start: 12 @41482 has 35 MA's), (19, 41611),

Gene: Floral_61 Start: 44041, Stop: 44247, Start Num: 12

Candidate Starts for Floral_61:

(Start: 12 @44041 has 35 MA's),

Gene: Frokostdame_65 Start: 41873, Stop: 42067, Start Num: 15

Candidate Starts for Frokostdame_65:

(7, 41723), (8, 41732), (Start: 12 @41843 has 35 MA's), (Start: 15 @41873 has 5 MA's), (19, 41975),

Gene: GemG_58 Start: 38044, Stop: 38244, Start Num: 12

Candidate Starts for GemG_58:

(Start: 12 @38044 has 35 MA's), (19, 38173),

Gene: Gizermo_58 Start: 38040, Stop: 38240, Start Num: 12

Candidate Starts for Gizermo_58:

(Start: 12 @38040 has 35 MA's), (19, 38169),

Gene: Haley23_58 Start: 38040, Stop: 38240, Start Num: 12

Candidate Starts for Haley23_58:

(Start: 12 @38040 has 35 MA's), (19, 38169),

Gene: Herod_61 Start: 43861, Stop: 44064, Start Num: 12

Candidate Starts for Herod_61:

(Start: 12 @43861 has 35 MA's),

Gene: Hitter_66 Start: 41277, Stop: 41456, Start Num: 15

Candidate Starts for Hitter_66:

(2, 40728), (3, 40806), (4, 40827), (5, 41010), (6, 41019), (9, 41193), (Start: 15 @41277 has 5 MA's), (19, 41379),

Gene: Hugley_59 Start: 43841, Stop: 44044, Start Num: 12

Candidate Starts for Hugley_59:

(Start: 12 @43841 has 35 MA's),

Gene: Kita_61 Start: 41491, Stop: 41691, Start Num: 12

Candidate Starts for Kita_61:

(Start: 12 @41491 has 35 MA's), (19, 41620),

Gene: Lamberg_54 Start: 36549, Stop: 36749, Start Num: 12

Candidate Starts for Lamberg_54:

(Start: 12 @36549 has 35 MA's), (19, 36678),

Gene: LittleFella_88 Start: 61351, Stop: 61539, Start Num: 14

Candidate Starts for LittleFella_88:

(11, 61324), (Start: 14 @61351 has 2 MA's), (20, 61489), (21, 61504), (22, 61519), (23, 61528),

Gene: Malibo_62 Start: 42576, Stop: 42782, Start Num: 12

Candidate Starts for Malibo_62:

(Start: 12 @42576 has 35 MA's), (19, 42705),

Gene: Manasvini_61 Start: 41506, Stop: 41706, Start Num: 12

Candidate Starts for Manasvini_61:

(Start: 12 @41506 has 35 MA's), (19, 41635),

Gene: Marteena_59 Start: 42156, Stop: 42362, Start Num: 12

Candidate Starts for Marteena_59:

(Start: 12 @42156 has 35 MA's),

Gene: Melba_63 Start: 40669, Stop: 40842, Start Num: 15

Candidate Starts for Melba_63:

(7, 40519), (8, 40528), (Start: 12 @40639 has 35 MA's), (Start: 15 @40669 has 5 MA's),

Gene: Mellie_64 Start: 41231, Stop: 41422, Start Num: 14

Candidate Starts for Mellie_64:

(10, 41204), (Start: 14 @41231 has 2 MA's), (Start: 15 @41243 has 5 MA's), (17, 41324),

Gene: Mocha12_58 Start: 38040, Stop: 38240, Start Num: 12

Candidate Starts for Mocha12_58:

(Start: 12 @38040 has 35 MA's), (19, 38169),

Gene: Neobush_60 Start: 41476, Stop: 41676, Start Num: 12

Candidate Starts for Neobush_60:

(Start: 12 @41476 has 35 MA's), (19, 41605),

Gene: Nettuno_54 Start: 36549, Stop: 36749, Start Num: 12

Candidate Starts for Nettuno_54:

(Start: 12 @36549 has 35 MA's), (19, 36678),

Gene: PantheRoc_64 Start: 43202, Stop: 43396, Start Num: 15

Candidate Starts for PantheRoc_64:

(8, 43061), (Start: 12 @43172 has 35 MA's), (Start: 15 @43202 has 5 MA's), (19, 43304),

Gene: Pickett_53 Start: 35779, Stop: 35979, Start Num: 12

Candidate Starts for Pickett_53:

(Start: 12 @35779 has 35 MA's), (19, 35908),

Gene: Pollux_63 Start: 44041, Stop: 44247, Start Num: 12

Candidate Starts for Pollux_63:

(Start: 12 @44041 has 35 MA's),

Gene: Polly_57 Start: 40925, Stop: 41125, Start Num: 12

Candidate Starts for Polly_57:

(Start: 12 @40925 has 35 MA's), (19, 41054),

Gene: RedWattleHog_156 Start: 105388, Stop: 105606, Start Num: 13
Candidate Starts for RedWattleHog_156:
(Start: 13 @105388 has 2 MA's), (16, 105466), (18, 105520), (20, 105559), (21, 105574),

Gene: Sahara_57 Start: 37787, Stop: 37987, Start Num: 12
Candidate Starts for Sahara_57:
(Start: 12 @37787 has 35 MA's), (19, 37916),

Gene: Savage_58 Start: 38040, Stop: 38240, Start Num: 12
Candidate Starts for Savage_58:
(Start: 12 @38040 has 35 MA's), (19, 38169),

Gene: Sproutie_58 Start: 38040, Stop: 38240, Start Num: 12
Candidate Starts for Sproutie_58:
(Start: 12 @38040 has 35 MA's), (19, 38169),

Gene: Stormageddon_157 Start: 106352, Stop: 106570, Start Num: 13
Candidate Starts for Stormageddon_157:
(Start: 13 @106352 has 2 MA's), (16, 106430), (18, 106484), (20, 106523), (21, 106538),

Gene: Suscepit_60 Start: 41483, Stop: 41683, Start Num: 12
Candidate Starts for Suscepit_60:
(Start: 12 @41483 has 35 MA's), (19, 41612),

Gene: Tayonia_60 Start: 41482, Stop: 41682, Start Num: 12
Candidate Starts for Tayonia_60:
(Start: 12 @41482 has 35 MA's), (19, 41611),

Gene: Trumpet_60 Start: 41483, Stop: 41683, Start Num: 12
Candidate Starts for Trumpet_60:
(Start: 12 @41483 has 35 MA's), (19, 41612),

Gene: TuertoX_58 Start: 38040, Stop: 38240, Start Num: 12
Candidate Starts for TuertoX_58:
(Start: 12 @38040 has 35 MA's), (19, 38169),

Gene: UmaThurman_62 Start: 41312, Stop: 41485, Start Num: 15
Candidate Starts for UmaThurman_62:
(8, 41171), (Start: 12 @41282 has 35 MA's), (Start: 15 @41312 has 5 MA's),

Gene: Whiteclaw_58 Start: 38040, Stop: 38240, Start Num: 12
Candidate Starts for Whiteclaw_58:
(Start: 12 @38040 has 35 MA's), (19, 38169),

Gene: Zameen_60 Start: 41482, Stop: 41682, Start Num: 12
Candidate Starts for Zameen_60:
(Start: 12 @41482 has 35 MA's), (19, 41611),

Gene: Zirinka_57 Start: 42102, Stop: 42302, Start Num: 12
Candidate Starts for Zirinka_57:
(Start: 12 @42102 has 35 MA's), (19, 42231),