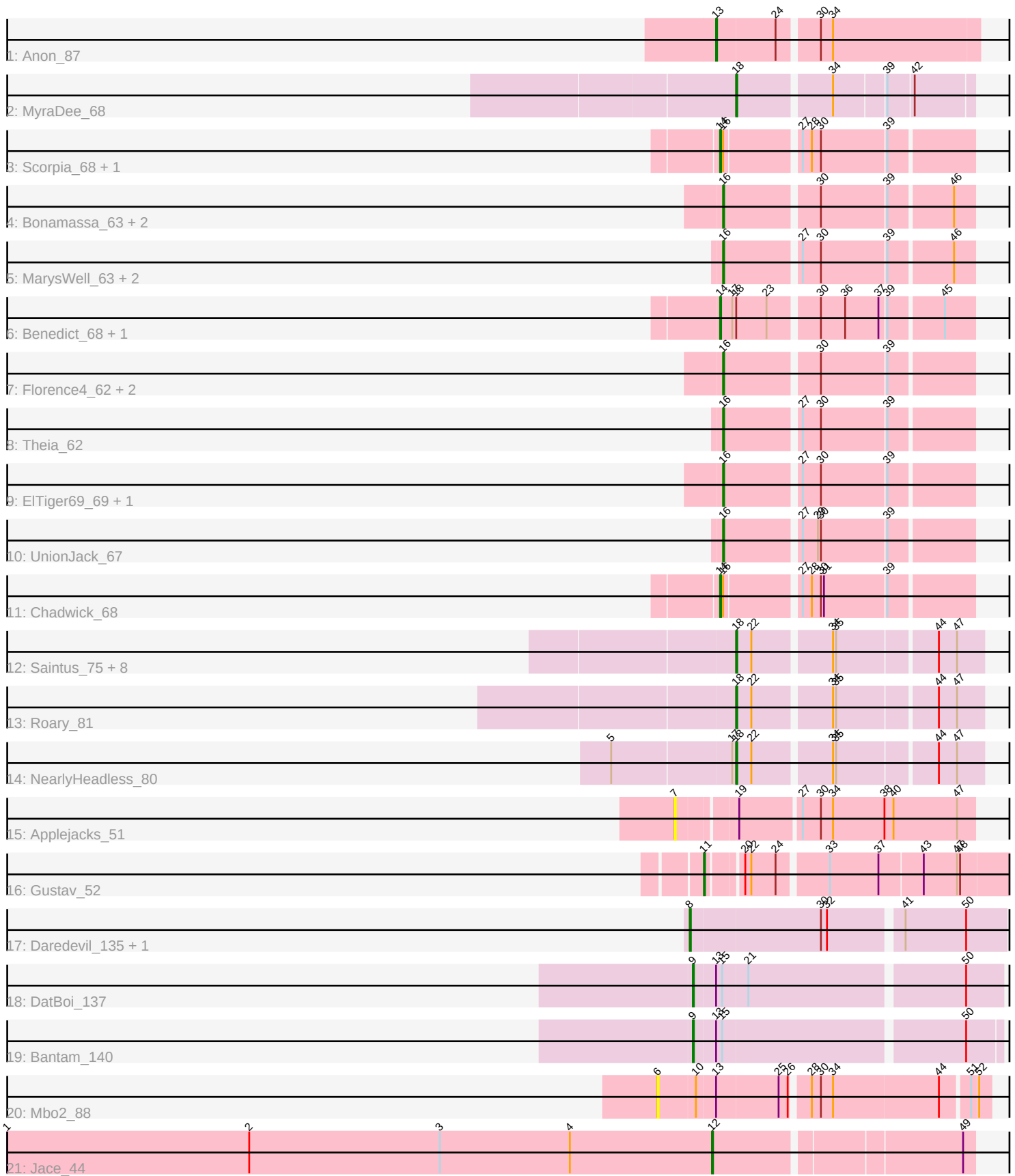




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 280626 Report

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

Pham number 280626 has 39 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Anon_87
- Track 2 : MyraDee_68
- Track 3 : Scorpia_68, PetterN_72
- Track 4 : Bonamassa_63, George_60, Milcery_63
- Track 5 : MarysWell_63, Micasa_63, Dublin_63
- Track 6 : Benedict_68, Airmid_67
- Track 7 : Florence4_62, Tarynearal_62, Florence1_60
- Track 8 : Theia_62
- Track 9 : ElTiger69_69, Naca_66
- Track 10 : UnionJack_67
- Track 11 : Chadwick_68
- Track 12 : Saintus_75, Stephig9_78, Caitlin_77, Groundhog_77, Expelliarmus_76, Astro_79, Dixon_78, Danforth_80, Smeadley_79
- Track 13 : Roary_81
- Track 14 : NearlyHeadless_80
- Track 15 : Applejacks_51
- Track 16 : Gustav_52
- Track 17 : Daredevil_135, Towmatter_132
- Track 18 : DatBoi_137
- Track 19 : Bantam_140
- Track 20 : Mbo2_88
- Track 21 : Jace_44

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

The start number called the most often in the published annotations is 16, it was called in 11 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bonamassa_63, Dublin_63, ElTiger69_69, Florence1_60, Florence4_62, George_60, MarysWell_63, Micasa_63, Milcery_63, Naca_66, Tarynearal_62, Theia_62, UnionJack_67,

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

- Chadwick_68, PetterN_72, Scorpio_68,

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

- Airmid_67, Anon_87, Applejacks_51, Astro_79, Bantam_140, Benedict_68, Caitlin_77, Danforth_80, Daredevil_135, DatBoi_137, Dixon_78, Expelliarmus_76, Groundhog_77, Gustav_52, Jace_44, Mbo2_88, MyraDee_68, NearlyHeadless_80, Roary_81, Saintus_75, Smeadley_79, Stephig9_78, Towmatter_132,

Summary by start number:

Start 6:

- Found in 1 of 39 (2.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mbo2_88 (singleton),

Start 7:

- Found in 1 of 39 (2.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Applejacks_51 (CD),

Start 8:

- Found in 2 of 39 (5.1%) of genes in pham
- Manual Annotations of this start: 2 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Daredevil_135 (DL), Towmatter_132 (DL),

Start 9:

- Found in 2 of 39 (5.1%) of genes in pham
- Manual Annotations of this start: 2 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bantam_140 (DL), DatBoi_137 (DL),

Start 11:

- Found in 1 of 39 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gustav_52 (CD),

Start 12:

- Found in 1 of 39 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jace_44 (singleton),

Start 13:

- Found in 4 of 39 (10.3%) of genes in pham
- Manual Annotations of this start: 1 of 34
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Anon_87 (A15),

Start 14:

- Found in 5 of 39 (12.8%) of genes in pham
- Manual Annotations of this start: 5 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Airmid_67 (A5), Benedict_68 (A5), Chadwick_68 (A5), PetterN_72 (A5), Scorpia_68 (A5),

Start 16:

- Found in 16 of 39 (41.0%) of genes in pham
- Manual Annotations of this start: 11 of 34
- Called 81.2% of time when present
- Phage (with cluster) where this start called: Bonamassa_63 (A5), Dublin_63 (A5), ElTiger69_69 (A5), Florence1_60 (A5), Florence4_62 (A5), George_60 (A5), MarysWell_63 (A5), Micasa_63 (A5), Milcery_63 (A5), Naca_66 (A5), Tarynearal_62 (A5), Theia_62 (A5), UnionJack_67 (A5),

Start 18:

- Found in 14 of 39 (35.9%) of genes in pham
- Manual Annotations of this start: 11 of 34
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Astro_79 (A8), Caitlin_77 (A8), Danforth_80 (A8), Dixon_78 (A8), Expelliarmus_76 (A8), Groundhog_77 (A8), MyraDee_68 (A18), NearlyHeadless_80 (A8), Roary_81 (A8), Saintus_75 (A8), Smeadley_79 (A8), Stephig9_78 (A8),

Summary by clusters:

There are 7 clusters represented in this pham: A15, singleton, A18, CD, A5, A8, DL,

Info for manual annotations of cluster A15:

- Start number 13 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster A18:

- Start number 18 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A5:

- Start number 14 was manually annotated 5 times for cluster A5.
- Start number 16 was manually annotated 11 times for cluster A5.

Info for manual annotations of cluster A8:

- Start number 18 was manually annotated 10 times for cluster A8.

Info for manual annotations of cluster CD:

- Start number 11 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster DL:

- Start number 8 was manually annotated 2 times for cluster DL.
- Start number 9 was manually annotated 2 times for cluster DL.

Gene Information:

Gene: Airmid_67 Start: 42203, Stop: 41970, Start Num: 14

Candidate Starts for Airmid_67:

(Start: 14 @42203 has 5 MA's), (17, 42191), (Start: 18 @42188 has 11 MA's), (23, 42158), (30, 42113), (36, 42089), (37, 42056), (39, 42050), (45, 41999),

Gene: Anon_87 Start: 47141, Stop: 46893, Start Num: 13

Candidate Starts for Anon_87:

(Start: 13 @47141 has 1 MA's), (24, 47084), (30, 47048), (34, 47036),

Gene: Applejacks_51 Start: 36820, Stop: 36542, Start Num: 7

Candidate Starts for Applejacks_51:

(7, 36820), (19, 36769), (27, 36712), (30, 36694), (34, 36682), (38, 36631), (40, 36622), (47, 36559),

Gene: Astro_79 Start: 43758, Stop: 43531, Start Num: 18

Candidate Starts for Astro_79:

(Start: 18 @43758 has 11 MA's), (22, 43743), (34, 43671), (35, 43668), (44, 43575), (47, 43557),

Gene: Bantam_140 Start: 81437, Stop: 81150, Start Num: 9

Candidate Starts for Bantam_140:

(Start: 9 @81437 has 2 MA's), (Start: 13 @81416 has 1 MA's), (15, 81410), (50, 81182),

Gene: Benedict_68 Start: 41935, Stop: 41702, Start Num: 14

Candidate Starts for Benedict_68:

(Start: 14 @41935 has 5 MA's), (17, 41923), (Start: 18 @41920 has 11 MA's), (23, 41890), (30, 41845), (36, 41821), (37, 41788), (39, 41782), (45, 41731),

Gene: Bonamassa_63 Start: 41386, Stop: 41156, Start Num: 16

Candidate Starts for Bonamassa_63:

(Start: 16 @41386 has 11 MA's), (30, 41299), (39, 41236), (46, 41176),

Gene: Caitlin_77 Start: 43450, Stop: 43223, Start Num: 18

Candidate Starts for Caitlin_77:

(Start: 18 @43450 has 11 MA's), (22, 43435), (34, 43363), (35, 43360), (44, 43267), (47, 43249),

Gene: Chadwick_68 Start: 41682, Stop: 41452, Start Num: 14

Candidate Starts for Chadwick_68:

(Start: 14 @41682 has 5 MA's), (Start: 16 @41679 has 11 MA's), (27, 41613), (28, 41604), (30, 41595), (31, 41592), (39, 41532),

Gene: Danforth_80 Start: 43835, Stop: 43608, Start Num: 18

Candidate Starts for Danforth_80:

(Start: 18 @43835 has 11 MA's), (22, 43820), (34, 43748), (35, 43745), (44, 43652), (47, 43634),

Gene: Daredevil_135 Start: 78519, Stop: 78223, Start Num: 8

Candidate Starts for Daredevil_135:

(Start: 8 @78519 has 2 MA's), (30, 78393), (32, 78387), (41, 78321), (50, 78261),

Gene: DatBoi_137 Start: 80432, Stop: 80142, Start Num: 9

Candidate Starts for DatBoi_137:

(Start: 9 @80432 has 2 MA's), (Start: 13 @80411 has 1 MA's), (15, 80405), (21, 80381), (50, 80177),

Gene: Dixon_78 Start: 43317, Stop: 43090, Start Num: 18

Candidate Starts for Dixon_78:

(Start: 18 @43317 has 11 MA's), (22, 43302), (34, 43230), (35, 43227), (44, 43134), (47, 43116),

Gene: Dublin_63 Start: 41343, Stop: 41113, Start Num: 16

Candidate Starts for Dublin_63:

(Start: 16 @41343 has 11 MA's), (27, 41274), (30, 41256), (39, 41193), (46, 41133),

Gene: ElTiger69_69 Start: 42424, Stop: 42194, Start Num: 16

Candidate Starts for ElTiger69_69:

(Start: 16 @42424 has 11 MA's), (27, 42355), (30, 42337), (39, 42274),

Gene: Expelliarmus_76 Start: 43531, Stop: 43304, Start Num: 18

Candidate Starts for Expelliarmus_76:

(Start: 18 @43531 has 11 MA's), (22, 43516), (34, 43444), (35, 43441), (44, 43348), (47, 43330),

Gene: Florence1_60 Start: 40898, Stop: 40668, Start Num: 16

Candidate Starts for Florence1_60:

(Start: 16 @40898 has 11 MA's), (30, 40811), (39, 40748),

Gene: Florence4_62 Start: 40898, Stop: 40668, Start Num: 16

Candidate Starts for Florence4_62:

(Start: 16 @40898 has 11 MA's), (30, 40811), (39, 40748),

Gene: George_60 Start: 41130, Stop: 40900, Start Num: 16

Candidate Starts for George_60:

(Start: 16 @41130 has 11 MA's), (30, 41043), (39, 40980), (46, 40920),

Gene: Groundhog_77 Start: 43587, Stop: 43366, Start Num: 18

Candidate Starts for Groundhog_77:

(Start: 18 @43587 has 11 MA's), (22, 43572), (34, 43500), (35, 43497), (44, 43404), (47, 43386),

Gene: Gustav_52 Start: 37684, Stop: 37406, Start Num: 11

Candidate Starts for Gustav_52:

(Start: 11 @37684 has 1 MA's), (20, 37654), (22, 37648), (24, 37624), (33, 37579), (37, 37531), (43, 37489), (47, 37456), (48, 37453),

Gene: Jace_44 Start: 31248, Stop: 31490, Start Num: 12

Candidate Starts for Jace_44:

(1, 30549), (2, 30789), (3, 30978), (4, 31107), (Start: 12 @31248 has 1 MA's), (49, 31479),

Gene: MarysWell_63 Start: 41586, Stop: 41356, Start Num: 16

Candidate Starts for MarysWell_63:

(Start: 16 @41586 has 11 MA's), (27, 41517), (30, 41499), (39, 41436), (46, 41376),

Gene: Mbo2_88 Start: 61343, Stop: 61041, Start Num: 6

Candidate Starts for Mbo2_88:

(6, 61343), (10, 61307), (Start: 13 @61289 has 1 MA's), (25, 61229), (26, 61220), (28, 61205), (30, 61196), (34, 61184), (44, 61082), (51, 61058), (52, 61052),

Gene: Micasa_63 Start: 41308, Stop: 41078, Start Num: 16

Candidate Starts for Micasa_63:

(Start: 16 @41308 has 11 MA's), (27, 41239), (30, 41221), (39, 41158), (46, 41098),

Gene: Milcery_63 Start: 41098, Stop: 40868, Start Num: 16

Candidate Starts for Milcery_63:

(Start: 16 @41098 has 11 MA's), (30, 41011), (39, 40948), (46, 40888),

Gene: MyraDee_68 Start: 40150, Stop: 39935, Start Num: 18

Candidate Starts for MyraDee_68:

(Start: 18 @40150 has 11 MA's), (34, 40063), (39, 40015), (42, 39991),

Gene: Naca_66 Start: 42496, Stop: 42266, Start Num: 16

Candidate Starts for Naca_66:

(Start: 16 @42496 has 11 MA's), (27, 42427), (30, 42409), (39, 42346),

Gene: NearlyHeadless_80 Start: 43601, Stop: 43374, Start Num: 18

Candidate Starts for NearlyHeadless_80:

(5, 43718), (17, 43604), (Start: 18 @43601 has 11 MA's), (22, 43586), (34, 43514), (35, 43511), (44, 43418), (47, 43400),

Gene: PetterN_72 Start: 42468, Stop: 42238, Start Num: 14

Candidate Starts for PetterN_72:

(Start: 14 @42468 has 5 MA's), (Start: 16 @42465 has 11 MA's), (27, 42399), (28, 42390), (30, 42381), (39, 42318),

Gene: Roary_81 Start: 43837, Stop: 43610, Start Num: 18

Candidate Starts for Roary_81:

(Start: 18 @43837 has 11 MA's), (22, 43822), (34, 43750), (35, 43747), (44, 43654), (47, 43636),

Gene: Saintus_75 Start: 40485, Stop: 40258, Start Num: 18

Candidate Starts for Saintus_75:

(Start: 18 @40485 has 11 MA's), (22, 40470), (34, 40398), (35, 40395), (44, 40302), (47, 40284),

Gene: Scorpia_68 Start: 42039, Stop: 41809, Start Num: 14

Candidate Starts for Scorpia_68:

(Start: 14 @42039 has 5 MA's), (Start: 16 @42036 has 11 MA's), (27, 41970), (28, 41961), (30, 41952), (39, 41889),

Gene: Smeadley_79 Start: 43653, Stop: 43426, Start Num: 18

Candidate Starts for Smeadley_79:

(Start: 18 @43653 has 11 MA's), (22, 43638), (34, 43566), (35, 43563), (44, 43470), (47, 43452),

Gene: Stephig9_78 Start: 43592, Stop: 43365, Start Num: 18

Candidate Starts for Stephig9_78:

(Start: 18 @43592 has 11 MA's), (22, 43577), (34, 43505), (35, 43502), (44, 43409), (47, 43391),

Gene: Tarynearal_62 Start: 41084, Stop: 40854, Start Num: 16

Candidate Starts for Tarynearal_62:

(Start: 16 @41084 has 11 MA's), (30, 40997), (39, 40934),

Gene: Theia_62 Start: 41570, Stop: 41340, Start Num: 16

Candidate Starts for Theia_62:

(Start: 16 @41570 has 11 MA's), (27, 41501), (30, 41483), (39, 41420),

Gene: Towmatter_132 Start: 78600, Stop: 78304, Start Num: 8

Candidate Starts for Towmatter_132:

(Start: 8 @78600 has 2 MA's), (30, 78474), (32, 78468), (41, 78402), (50, 78342),

Gene: UnionJack_67 Start: 41521, Stop: 41291, Start Num: 16

Candidate Starts for UnionJack_67:

(Start: 16 @41521 has 11 MA's), (27, 41452), (29, 41437), (30, 41434), (39, 41371),