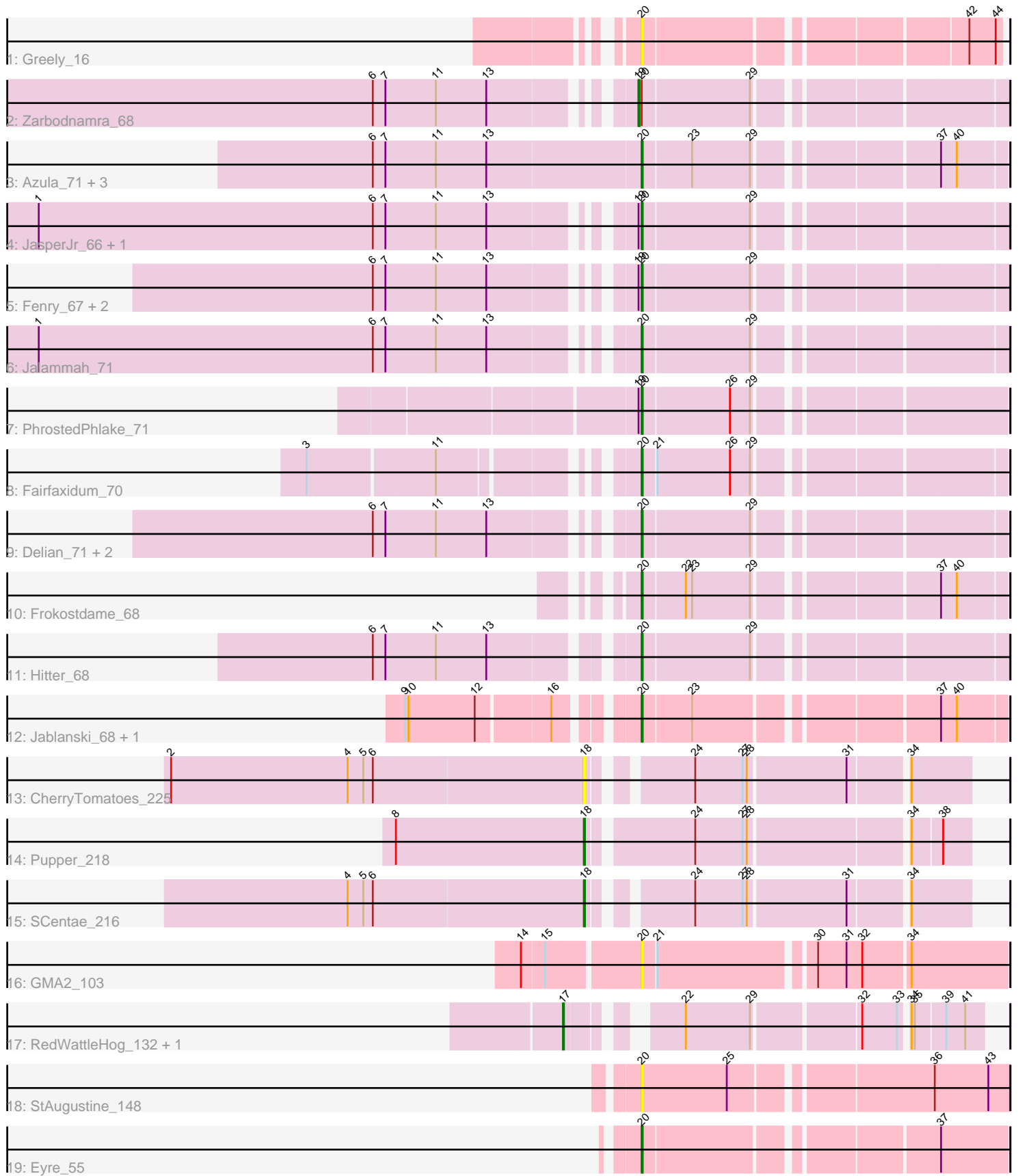


Pham 86351



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 86351 Report

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

Pham number 86351 has 29 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Greely_16
- Track 2 : Zarbodnamra_68
- Track 3 : Azula_71, MissRona_71, Gambino_73, Blueberry_70
- Track 4 : JasperJr_66, Guacamole_66
- Track 5 : Fenry_67, Samba_68, Lysidious_70
- Track 6 : Jalammah_71
- Track 7 : PhrostedPhlake_71
- Track 8 : Fairfaxidum_70
- Track 9 : Delian_71, MintFen_68, CaptainKirk2_68
- Track 10 : Frokostdame_68
- Track 11 : Hitter_68
- Track 12 : Jablanski_68, Pytheas_68
- Track 13 : CherryTomatoes_225
- Track 14 : Pupper_218
- Track 15 : SCentae_216
- Track 16 : GMA2_103
- Track 17 : RedWattleHog_132, Stormageddon_130
- Track 18 : StAugustine_148
- Track 19 : Eyre_55

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

The start number called the most often in the published annotations is 20, it was called in 20 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Azula_71, Blueberry_70, CaptainKirk2_68, Delian_71, Eyre_55, Fairfaxidum_70, Fenry_67, Frokostdame_68, GMA2_103, Gambino_73, Greely_16, Guacamole_66, Hitter_68, Jablanski_68, Jalammah_71, JasperJr_66, Lysidious_70, MintFen_68, MissRona_71, PhrostedPhlake_71, Pytheas_68, Samba_68, StAugustine_148,

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

- Zarbodnamra_68,

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

- CherryTomatoes_225, Pupper_218, RedWattleHog_132, SCentae_216, Stormageddon_130,

Summary by start number:

Start 17:

- Found in 2 of 29 (6.9%) of genes in pham
- Manual Annotations of this start: 2 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RedWattleHog_132 (DX), Stormageddon_130 (DX),

Start 18:

- Found in 3 of 29 (10.3%) of genes in pham
- Manual Annotations of this start: 2 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CherryTomatoes_225 (DO), Pupper_218 (DO), SCentae_216 (DO),

Start 19:

- Found in 7 of 29 (24.1%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Zarbodnamra_68 (CV),

Start 20:

- Found in 24 of 29 (82.8%) of genes in pham
- Manual Annotations of this start: 20 of 25
- Called 95.8% of time when present
- Phage (with cluster) where this start called: Azula_71 (CV), Blueberry_70 (CV), CaptainKirk2_68 (CV), Delian_71 (CV), Eyre_55 (singleton), Fairfaxidum_70 (CV), Ferry_67 (CV), Frokostdame_68 (CV), GMA2_103 (DS), Gambino_73 (CV), Greely_16 (C2), Guacamole_66 (CV), Hitter_68 (CV), Jablanski_68 (CY), Jalammah_71 (CV), JasperJr_66 (CV), Lysidious_70 (CV), MintFen_68 (CV), MissRona_71 (CV), PhrostedPhlake_71 (CV), Pytheas_68 (CY), Samba_68 (CV), StAugustine_148 (singleton),

Summary by clusters:

There are 7 clusters represented in this pham: DO, singleton, DS, CY, DX, C2, CV,

Info for manual annotations of cluster CV:

- Start number 19 was manually annotated 1 time for cluster CV.
- Start number 20 was manually annotated 17 times for cluster CV.

Info for manual annotations of cluster CY:

- Start number 20 was manually annotated 2 times for cluster CY.

Info for manual annotations of cluster DO:

- Start number 18 was manually annotated 2 times for cluster DO.

Info for manual annotations of cluster DX:

- Start number 17 was manually annotated 2 times for cluster DX.

Gene Information:

Gene: Azula_71 Start: 45529, Stop: 45840, Start Num: 20

Candidate Starts for Azula_71:

(6, 45277), (7, 45289), (11, 45337), (13, 45385), (Start: 20 @45529 has 20 MA's), (23, 45574), (29, 45628), (37, 45781), (40, 45796),

Gene: Blueberry_70 Start: 45529, Stop: 45840, Start Num: 20

Candidate Starts for Blueberry_70:

(6, 45277), (7, 45289), (11, 45337), (13, 45385), (Start: 20 @45529 has 20 MA's), (23, 45574), (29, 45628), (37, 45781), (40, 45796),

Gene: CaptainKirk2_68 Start: 41525, Stop: 41836, Start Num: 20

Candidate Starts for CaptainKirk2_68:

(6, 41306), (7, 41318), (11, 41366), (13, 41414), (Start: 20 @41525 has 20 MA's), (29, 41624),

Gene: CherryTomatoes_225 Start: 145177, Stop: 145500, Start Num: 18

Candidate Starts for CherryTomatoes_225:

(2, 144787), (4, 144955), (5, 144970), (6, 144979), (Start: 18 @145177 has 2 MA's), (24, 145255), (27, 145300), (28, 145303), (31, 145393), (34, 145444),

Gene: Delian_71 Start: 41523, Stop: 41834, Start Num: 20

Candidate Starts for Delian_71:

(6, 41304), (7, 41316), (11, 41364), (13, 41412), (Start: 20 @41523 has 20 MA's), (29, 41622),

Gene: Eyre_55 Start: 36515, Stop: 36829, Start Num: 20

Candidate Starts for Eyre_55:

(Start: 20 @36515 has 20 MA's), (37, 36767),

Gene: Fairfaxidum_70 Start: 44112, Stop: 44423, Start Num: 20

Candidate Starts for Fairfaxidum_70:

(3, 43845), (11, 43962), (Start: 20 @44112 has 20 MA's), (21, 44124), (26, 44193), (29, 44211),

Gene: Fenry_67 Start: 43915, Stop: 44229, Start Num: 20

Candidate Starts for Fenry_67:

(6, 43696), (7, 43708), (11, 43756), (13, 43804), (Start: 19 @43912 has 1 MA's), (Start: 20 @43915 has 20 MA's), (29, 44014),

Gene: Frokostdame_68 Start: 44645, Stop: 44956, Start Num: 20

Candidate Starts for Frokostdame_68:

(Start: 20 @44645 has 20 MA's), (22, 44684), (23, 44690), (29, 44744), (37, 44897), (40, 44912),

Gene: GMA2_103 Start: 92477, Stop: 92154, Start Num: 20

Candidate Starts for GMA2_103:

(14, 92582), (15, 92561), (Start: 20 @92477 has 20 MA's), (21, 92465), (30, 92327), (31, 92300), (32, 92285), (34, 92243),

Gene: Gambino_73 Start: 45529, Stop: 45840, Start Num: 20

Candidate Starts for Gambino_73:

(6, 45277), (7, 45289), (11, 45337), (13, 45385), (Start: 20 @45529 has 20 MA's), (23, 45574), (29, 45628), (37, 45781), (40, 45796),

Gene: Greely_16 Start: 6668, Stop: 6973, Start Num: 20

Candidate Starts for Greely_16:

(Start: 20 @6668 has 20 MA's), (42, 6944), (44, 6968),

Gene: Guacamole_66 Start: 42886, Stop: 43200, Start Num: 20

Candidate Starts for Guacamole_66:

(1, 42349), (6, 42667), (7, 42679), (11, 42727), (13, 42775), (Start: 19 @42883 has 1 MA's), (Start: 20 @42886 has 20 MA's), (29, 42985),

Gene: Hitter_68 Start: 41848, Stop: 42162, Start Num: 20

Candidate Starts for Hitter_68:

(6, 41623), (7, 41635), (11, 41683), (13, 41731), (Start: 20 @41848 has 20 MA's), (29, 41947),

Gene: Jablanski_68 Start: 47247, Stop: 47558, Start Num: 20

Candidate Starts for Jablanski_68:

(9, 47055), (10, 47058), (12, 47121), (16, 47187), (Start: 20 @47247 has 20 MA's), (23, 47292), (37, 47499), (40, 47514),

Gene: Jalamah_71 Start: 44818, Stop: 45132, Start Num: 20

Candidate Starts for Jalamah_71:

(1, 44281), (6, 44599), (7, 44611), (11, 44659), (13, 44707), (Start: 20 @44818 has 20 MA's), (29, 44917),

Gene: JasperJr_66 Start: 42886, Stop: 43200, Start Num: 20

Candidate Starts for JasperJr_66:

(1, 42349), (6, 42667), (7, 42679), (11, 42727), (13, 42775), (Start: 19 @42883 has 1 MA's), (Start: 20 @42886 has 20 MA's), (29, 42985),

Gene: Lysidious_70 Start: 44544, Stop: 44858, Start Num: 20

Candidate Starts for Lysidious_70:

(6, 44325), (7, 44337), (11, 44385), (13, 44433), (Start: 19 @44541 has 1 MA's), (Start: 20 @44544 has 20 MA's), (29, 44643),

Gene: MintFen_68 Start: 42139, Stop: 42450, Start Num: 20

Candidate Starts for MintFen_68:

(6, 41920), (7, 41932), (11, 41980), (13, 42028), (Start: 20 @42139 has 20 MA's), (29, 42238),

Gene: MissRona_71 Start: 45530, Stop: 45841, Start Num: 20

Candidate Starts for MissRona_71:

(6, 45278), (7, 45290), (11, 45338), (13, 45386), (Start: 20 @45530 has 20 MA's), (23, 45575), (29, 45629), (37, 45782), (40, 45797),

Gene: PhrostedPhlake_71 Start: 43736, Stop: 44050, Start Num: 20

Candidate Starts for PhrostedPhlake_71:

(Start: 19 @43733 has 1 MA's), (Start: 20 @43736 has 20 MA's), (26, 43817), (29, 43835),

Gene: Pupper_218 Start: 144913, Stop: 145245, Start Num: 18

Candidate Starts for Pupper_218:

(8, 144736), (Start: 18 @144913 has 2 MA's), (24, 145003), (27, 145048), (28, 145051), (34, 145192), (38, 145219),

Gene: Pytheas_68 Start: 47246, Stop: 47557, Start Num: 20

Candidate Starts for Pytheas_68:

(9, 47054), (10, 47057), (12, 47120), (16, 47186), (Start: 20 @47246 has 20 MA's), (23, 47291), (37, 47498), (40, 47513),

Gene: RedWattleHog_132 Start: 95593, Stop: 95928, Start Num: 17

Candidate Starts for RedWattleHog_132:

(Start: 17 @95593 has 2 MA's), (22, 95671), (29, 95731), (32, 95824), (33, 95857), (34, 95863), (35, 95866), (39, 95893), (41, 95911),

Gene: SCentae_216 Start: 144901, Stop: 145224, Start Num: 18

Candidate Starts for SCentae_216:

(4, 144679), (5, 144694), (6, 144703), (Start: 18 @144901 has 2 MA's), (24, 144979), (27, 145024), (28, 145027), (31, 145117), (34, 145168),

Gene: Samba_68 Start: 45243, Stop: 45557, Start Num: 20

Candidate Starts for Samba_68:

(6, 45024), (7, 45036), (11, 45084), (13, 45132), (Start: 19 @45240 has 1 MA's), (Start: 20 @45243 has 20 MA's), (29, 45342),

Gene: StAugustine_148 Start: 84060, Stop: 83734, Start Num: 20

Candidate Starts for StAugustine_148:

(Start: 20 @84060 has 20 MA's), (25, 83979), (36, 83805), (43, 83754),

Gene: Stormageddon_130 Start: 95315, Stop: 95650, Start Num: 17

Candidate Starts for Stormageddon_130:

(Start: 17 @95315 has 2 MA's), (22, 95393), (29, 95453), (32, 95546), (33, 95579), (34, 95585), (35, 95588), (39, 95615), (41, 95633),

Gene: Zarbodnamra_68 Start: 42426, Stop: 42743, Start Num: 19

Candidate Starts for Zarbodnamra_68:

(6, 42210), (7, 42222), (11, 42270), (13, 42318), (Start: 19 @42426 has 1 MA's), (Start: 20 @42429 has 20 MA's), (29, 42528),