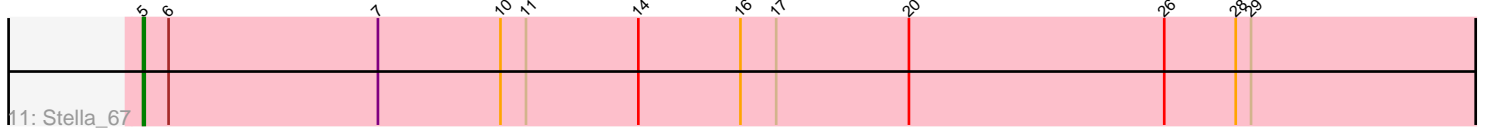
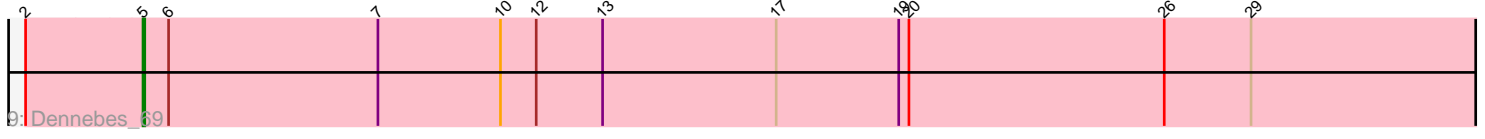
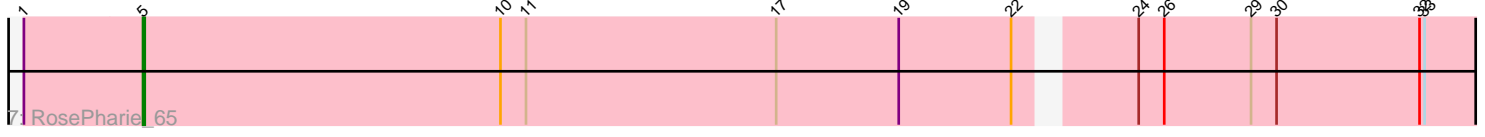
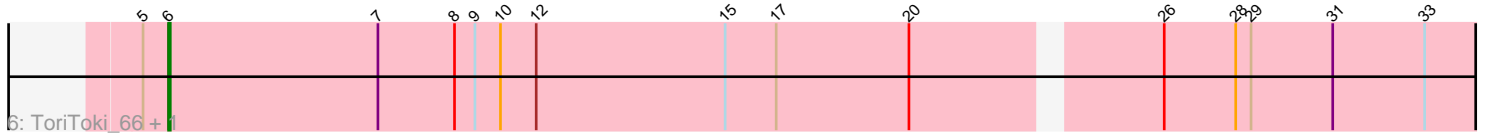
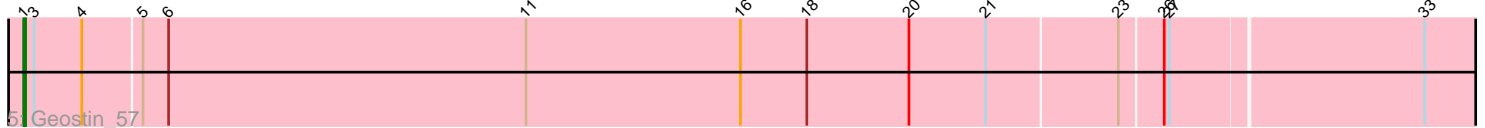
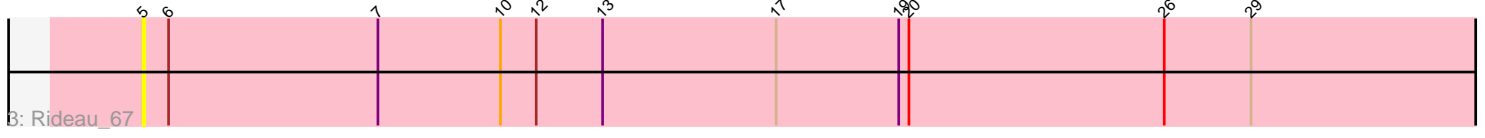
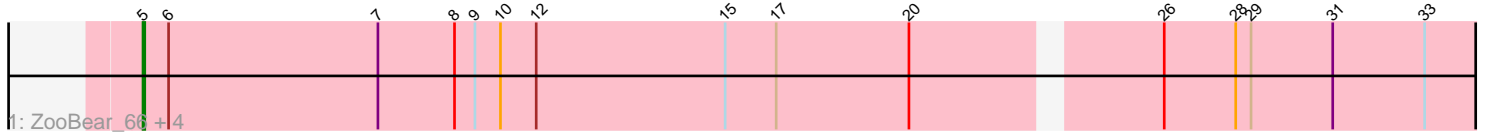


Pham 165270



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 165270 Report

This analysis was run 07/09/24 on database version 566.

Pham number 165270 has 23 members, 2 are drafts.

Phages represented in each track:

- Track 1 : ZooBear_66, Olicious_66, Romero_66, JPandJE_66, HaugeAnator_66
- Track 2 : Percastrophe_66, Treat_66
- Track 3 : Rideau_67
- Track 4 : Kumquat_63, Zeigle_63, WRightOn_67
- Track 5 : Geostin_57
- Track 6 : ToriToki_66, Immanuel3_65
- Track 7 : RosePharie_65
- Track 8 : RetrieverFever_62, Fabian_60
- Track 9 : Dennebes_69
- Track 10 : Manuel_62
- Track 11 : Stella_67
- Track 12 : Vorvolakos_63, FlowerPower_62, Gremlin23_62

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

The start number called the most often in the published annotations is 5, it was called in 14 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dennebes_69, HaugeAnator_66, JPandJE_66, Kumquat_63, Manuel_62, Olicious_66, Percastrophe_66, Rideau_67, Romero_66, RosePharie_65, Stella_67, Treat_66, WRightOn_67, Zeigle_63, ZooBear_66,

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

- Fabian_60, FlowerPower_62, Geostin_57, Gremlin23_62, Immanuel3_65, RetrieverFever_62, ToriToki_66, Vorvolakos_63,

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

-

Summary by start number:

Start 1:

- Found in 8 of 23 (34.8%) of genes in pham

- Manual Annotations of this start: 3 of 21
- Called 50.0% of time when present
- Phage (with cluster) where this start called: FlowerPower_62 (BF), Geostin_57 (BF), Gremlin23_62 (BF), Vorvolakos_63 (BF),

Start 3:

- Found in 6 of 23 (26.1%) of genes in pham
- Manual Annotations of this start: 2 of 21
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Fabian_60 (BF), RetrieverFever_62 (BF),

Start 5:

- Found in 23 of 23 (100.0%) of genes in pham
- Manual Annotations of this start: 14 of 21
- Called 65.2% of time when present
- Phage (with cluster) where this start called: Dennebes_69 (BF), HaugeAnator_66 (BF), JPandJE_66 (BF), Kumquat_63 (BF), Manuel_62 (BF), Olicious_66 (BF), Percastrophe_66 (BF), Rideau_67 (BF), Romero_66 (BF), RosePharie_65 (BF), Stella_67 (BF), Treat_66 (BF), WRightOn_67 (BF), Zeigle_63 (BF), ZooBear_66 (BF),

Start 6:

- Found in 21 of 23 (91.3%) of genes in pham
- Manual Annotations of this start: 2 of 21
- Called 9.5% of time when present
- Phage (with cluster) where this start called: Immanuel3_65 (BF), ToriToki_66 (BF),

Summary by clusters:

There is one cluster represented in this pham: BF

Info for manual annotations of cluster BF:

- Start number 1 was manually annotated 3 times for cluster BF.
- Start number 3 was manually annotated 2 times for cluster BF.
- Start number 5 was manually annotated 14 times for cluster BF.
- Start number 6 was manually annotated 2 times for cluster BF.

Gene Information:

Gene: Dennebes_69 Start: 34407, Stop: 33568, Start Num: 5

Candidate Starts for Dennebes_69:

(2, 34473), (Start: 5 @34407 has 14 MA's), (Start: 6 @34392 has 2 MA's), (7, 34269), (10, 34197), (12, 34176), (13, 34137), (17, 34035), (19, 33963), (20, 33957), (26, 33807), (29, 33756),

Gene: Fabian_60 Start: 33698, Stop: 32811, Start Num: 3

Candidate Starts for Fabian_60:

(Start: 1 @33704 has 3 MA's), (Start: 3 @33698 has 2 MA's), (4, 33671), (Start: 5 @33638 has 14 MA's), (Start: 6 @33623 has 2 MA's), (11, 33413), (16, 33287), (20, 33188), (21, 33143), (23, 33068), (26, 33044), (27, 33041), (33, 32897),

Gene: FlowerPower_62 Start: 33704, Stop: 32811, Start Num: 1

Candidate Starts for FlowerPower_62:

(Start: 1 @33704 has 3 MA's), (Start: 3 @33698 has 2 MA's), (4, 33671), (Start: 5 @33638 has 14 MA's), (Start: 6 @33623 has 2 MA's), (11, 33413), (16, 33287), (20, 33188), (21, 33143), (23, 33068), (26, 33044), (27, 33041), (33, 32897),

Gene: Geostin_57 Start: 33704, Stop: 32811, Start Num: 1

Candidate Starts for Geostin_57:

(Start: 1 @33704 has 3 MA's), (Start: 3 @33698 has 2 MA's), (4, 33671), (Start: 5 @33638 has 14 MA's), (Start: 6 @33623 has 2 MA's), (11, 33413), (16, 33287), (18, 33248), (20, 33188), (21, 33143), (23, 33068), (26, 33044), (27, 33041), (33, 32897),

Gene: Gremlin23_62 Start: 33704, Stop: 32811, Start Num: 1

Candidate Starts for Gremlin23_62:

(Start: 1 @33704 has 3 MA's), (Start: 3 @33698 has 2 MA's), (4, 33671), (Start: 5 @33638 has 14 MA's), (Start: 6 @33623 has 2 MA's), (11, 33413), (16, 33287), (20, 33188), (21, 33143), (23, 33068), (26, 33044), (27, 33041), (33, 32897),

Gene: HaugeAnator_66 Start: 34368, Stop: 33547, Start Num: 5

Candidate Starts for HaugeAnator_66:

(Start: 5 @34368 has 14 MA's), (Start: 6 @34353 has 2 MA's), (7, 34230), (8, 34185), (9, 34173), (10, 34158), (12, 34137), (15, 34026), (17, 33996), (20, 33918), (26, 33786), (28, 33744), (29, 33735), (31, 33687), (33, 33633),

Gene: Immanuel3_65 Start: 34356, Stop: 33550, Start Num: 6

Candidate Starts for Immanuel3_65:

(Start: 5 @34371 has 14 MA's), (Start: 6 @34356 has 2 MA's), (7, 34233), (8, 34188), (9, 34176), (10, 34161), (12, 34140), (15, 34029), (17, 33999), (20, 33921), (26, 33789), (28, 33747), (29, 33738), (31, 33690), (33, 33636),

Gene: JPandJE_66 Start: 34887, Stop: 34066, Start Num: 5

Candidate Starts for JPandJE_66:

(Start: 5 @34887 has 14 MA's), (Start: 6 @34872 has 2 MA's), (7, 34749), (8, 34704), (9, 34692), (10, 34677), (12, 34656), (15, 34545), (17, 34515), (20, 34437), (26, 34305), (28, 34263), (29, 34254), (31, 34206), (33, 34152),

Gene: Kumquat_63 Start: 33623, Stop: 32784, Start Num: 5

Candidate Starts for Kumquat_63:

(4, 33659), (Start: 5 @33623 has 14 MA's), (Start: 6 @33608 has 2 MA's), (7, 33485), (10, 33413), (17, 33251), (19, 33179), (20, 33173), (26, 33023), (28, 32981), (29, 32972), (33, 32870),

Gene: Manuel_62 Start: 33910, Stop: 33089, Start Num: 5

Candidate Starts for Manuel_62:

(Start: 1 @33979 has 3 MA's), (Start: 5 @33910 has 14 MA's), (11, 33685), (17, 33538), (19, 33466), (22, 33400), (24, 33343), (25, 33337), (26, 33328), (29, 33277), (30, 33262), (32, 33178), (33, 33175),

Gene: Olicious_66 Start: 34368, Stop: 33547, Start Num: 5

Candidate Starts for Olicious_66:

(Start: 5 @34368 has 14 MA's), (Start: 6 @34353 has 2 MA's), (7, 34230), (8, 34185), (9, 34173), (10, 34158), (12, 34137), (15, 34026), (17, 33996), (20, 33918), (26, 33786), (28, 33744), (29, 33735), (31, 33687), (33, 33633),

Gene: Percastrophe_66 Start: 34302, Stop: 33481, Start Num: 5

Candidate Starts for Percastrophe_66:

(Start: 5 @34302 has 14 MA's), (Start: 6 @34287 has 2 MA's), (7, 34164), (8, 34119), (9, 34107), (10, 34092), (12, 34071), (15, 33960), (17, 33930), (20, 33852), (22, 33792), (26, 33720), (28, 33678), (29, 33669), (31, 33621), (33, 33567),

Gene: RetrieverFever_62 Start: 33698, Stop: 32811, Start Num: 3

Candidate Starts for RetrieverFever_62:

(Start: 1 @33704 has 3 MA's), (Start: 3 @33698 has 2 MA's), (4, 33671), (Start: 5 @33638 has 14 MA's), (Start: 6 @33623 has 2 MA's), (11, 33413), (16, 33287), (20, 33188), (21, 33143), (23, 33068), (26, 33044), (27, 33041), (33, 32897),

Gene: Rideau_67 Start: 34298, Stop: 33459, Start Num: 5

Candidate Starts for Rideau_67:

(Start: 5 @34298 has 14 MA's), (Start: 6 @34283 has 2 MA's), (7, 34160), (10, 34088), (12, 34067), (13, 34028), (17, 33926), (19, 33854), (20, 33848), (26, 33698), (29, 33647),

Gene: Romero_66 Start: 34361, Stop: 33540, Start Num: 5

Candidate Starts for Romero_66:

(Start: 5 @34361 has 14 MA's), (Start: 6 @34346 has 2 MA's), (7, 34223), (8, 34178), (9, 34166), (10, 34151), (12, 34130), (15, 34019), (17, 33989), (20, 33911), (26, 33779), (28, 33737), (29, 33728), (31, 33680), (33, 33626),

Gene: RosePharie_65 Start: 33971, Stop: 33150, Start Num: 5

Candidate Starts for RosePharie_65:

(Start: 1 @34040 has 3 MA's), (Start: 5 @33971 has 14 MA's), (10, 33761), (11, 33746), (17, 33599), (19, 33527), (22, 33461), (24, 33404), (26, 33389), (29, 33338), (30, 33323), (32, 33239), (33, 33236),

Gene: Stella_67 Start: 34766, Stop: 33927, Start Num: 5

Candidate Starts for Stella_67:

(Start: 5 @34766 has 14 MA's), (Start: 6 @34751 has 2 MA's), (7, 34628), (10, 34556), (11, 34541), (14, 34475), (16, 34415), (17, 34394), (20, 34316), (26, 34166), (28, 34124), (29, 34115),

Gene: ToriToki_66 Start: 34349, Stop: 33543, Start Num: 6

Candidate Starts for ToriToki_66:

(Start: 5 @34364 has 14 MA's), (Start: 6 @34349 has 2 MA's), (7, 34226), (8, 34181), (9, 34169), (10, 34154), (12, 34133), (15, 34022), (17, 33992), (20, 33914), (26, 33782), (28, 33740), (29, 33731), (31, 33683), (33, 33629),

Gene: Treat_66 Start: 34302, Stop: 33481, Start Num: 5

Candidate Starts for Treat_66:

(Start: 5 @34302 has 14 MA's), (Start: 6 @34287 has 2 MA's), (7, 34164), (8, 34119), (9, 34107), (10, 34092), (12, 34071), (15, 33960), (17, 33930), (20, 33852), (22, 33792), (26, 33720), (28, 33678), (29, 33669), (31, 33621), (33, 33567),

Gene: Vorvolakos_63 Start: 33703, Stop: 32810, Start Num: 1

Candidate Starts for Vorvolakos_63:

(Start: 1 @33703 has 3 MA's), (Start: 3 @33697 has 2 MA's), (4, 33670), (Start: 5 @33637 has 14 MA's), (Start: 6 @33622 has 2 MA's), (11, 33412), (16, 33286), (20, 33187), (21, 33142), (23, 33067), (26, 33043), (27, 33040), (33, 32896),

Gene: WRightOn_67 Start: 33779, Stop: 32940, Start Num: 5

Candidate Starts for WRightOn_67:

(4, 33815), (Start: 5 @33779 has 14 MA's), (Start: 6 @33764 has 2 MA's), (7, 33641), (10, 33569), (17, 33407), (19, 33335), (20, 33329), (26, 33179), (28, 33137), (29, 33128), (33, 33026),

Gene: Zeigle_63 Start: 33623, Stop: 32784, Start Num: 5

Candidate Starts for Zeigle_63:

(4, 33659), (Start: 5 @33623 has 14 MA's), (Start: 6 @33608 has 2 MA's), (7, 33485), (10, 33413), (17, 33251), (19, 33179), (20, 33173), (26, 33023), (28, 32981), (29, 32972), (33, 32870),

Gene: ZooBear_66 Start: 34368, Stop: 33547, Start Num: 5

Candidate Starts for ZooBear_66:

(Start: 5 @34368 has 14 MA's), (Start: 6 @34353 has 2 MA's), (7, 34230), (8, 34185), (9, 34173), (10, 34158), (12, 34137), (15, 34026), (17, 33996), (20, 33918), (26, 33786), (28, 33744), (29, 33735), (31, 33687), (33, 33633),