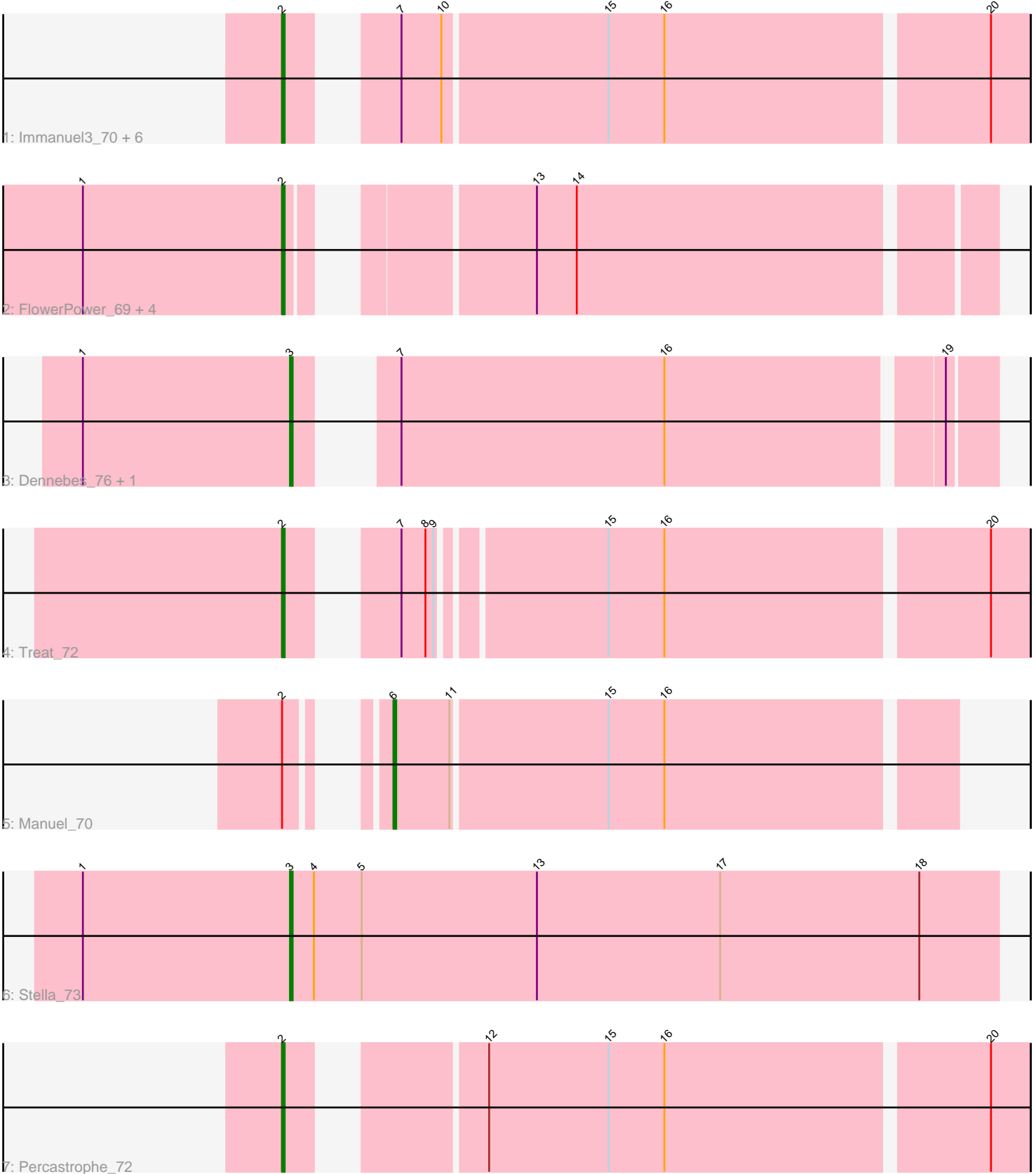


Pham 69218



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 69218 Report

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

Pham number 69218 has 18 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Immanuel3_70, Romero_72, ZooBear_72, HaugeAnator_72, ToriToki_72, JPandJE_72, Olacious_72
- Track 2 : FlowerPower_69, Fabian_68, Geostin_64, Vorvolakos_70, RetrieverFever_69
- Track 3 : Dennebes_76, Rideau_75
- Track 4 : Treat_72
- Track 5 : Manuel_70
- Track 6 : Stella_73
- Track 7 : Percastrophe_72

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

The start number called the most often in the published annotations is 2, it was called in 14 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Fabian_68, FlowerPower_69, Geostin_64, HaugeAnator_72, Immanuel3_70, JPandJE_72, Olacious_72, Percastrophe_72, RetrieverFever_69, Romero_72, ToriToki_72, Treat_72, Vorvolakos_70, ZooBear_72,

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

- Manuel_70,

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

- Dennebes_76, Rideau_75, Stella_73,

Summary by start number:

Start 2:

- Found in 15 of 18 (83.3%) of genes in pham
- Manual Annotations of this start: 14 of 17
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Fabian_68 (BF), FlowerPower_69 (BF), Geostin_64 (BF), HaugeAnator_72 (BF), Immanuel3_70 (BF), JPandJE_72 (BF),

Olicious_72 (BF), Percastrophe_72 (BF), RetrieverFever_69 (BF), Romero_72 (BF), ToriToki_72 (BF), Treat_72 (BF), Vorvolakos_70 (BF), ZooBear_72 (BF),

Start 3:

- Found in 3 of 18 (16.7%) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dennebes_76 (BF), Rideau_75 (BF), Stella_73 (BF),

Start 6:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Manuel_70 (BF),

Summary by clusters:

There is one cluster represented in this pham: BF

Info for manual annotations of cluster BF:

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

Gene Information:

Gene: Dennebes_76 Start: 37517, Stop: 37284, Start Num: 3

Candidate Starts for Dennebes_76:

(1, 37595), (Start: 3 @37517 has 2 MA's), (7, 37499), (16, 37400), (19, 37301),

Gene: Fabian_68 Start: 37017, Stop: 36781, Start Num: 2

Candidate Starts for Fabian_68:

(1, 37092), (Start: 2 @37017 has 14 MA's), (13, 36945), (14, 36930),

Gene: FlowerPower_69 Start: 36687, Stop: 36451, Start Num: 2

Candidate Starts for FlowerPower_69:

(1, 36762), (Start: 2 @36687 has 14 MA's), (13, 36615), (14, 36600),

Gene: Geostin_64 Start: 36687, Stop: 36451, Start Num: 2

Candidate Starts for Geostin_64:

(1, 36762), (Start: 2 @36687 has 14 MA's), (13, 36615), (14, 36600),

Gene: HaugeAnator_72 Start: 37272, Stop: 37018, Start Num: 2

Candidate Starts for HaugeAnator_72:

(Start: 2 @37272 has 14 MA's), (7, 37245), (10, 37230), (15, 37170), (16, 37149), (20, 37032),

Gene: Immanuel3_70 Start: 37278, Stop: 37024, Start Num: 2

Candidate Starts for Immanuel3_70:

(Start: 2 @37278 has 14 MA's), (7, 37251), (10, 37236), (15, 37176), (16, 37155), (20, 37038),

Gene: JPandJE_72 Start: 37797, Stop: 37543, Start Num: 2

Candidate Starts for JPandJE_72:

(Start: 2 @37797 has 14 MA's), (7, 37770), (10, 37755), (15, 37695), (16, 37674), (20, 37557),

Gene: Manuel_70 Start: 36879, Stop: 36676, Start Num: 6

Candidate Starts for Manuel_70:

(Start: 2 @36897 has 14 MA's), (Start: 6 @36879 has 1 MA's), (11, 36858), (15, 36801), (16, 36780),

Gene: Olicious_72 Start: 37275, Stop: 37021, Start Num: 2

Candidate Starts for Olicious_72:

(Start: 2 @37275 has 14 MA's), (7, 37248), (10, 37233), (15, 37173), (16, 37152), (20, 37035),

Gene: Percastrophe_72 Start: 37207, Stop: 36953, Start Num: 2

Candidate Starts for Percastrophe_72:

(Start: 2 @37207 has 14 MA's), (12, 37150), (15, 37105), (16, 37084), (20, 36967),

Gene: RetrieverFever_69 Start: 36687, Stop: 36451, Start Num: 2

Candidate Starts for RetrieverFever_69:

(1, 36762), (Start: 2 @36687 has 14 MA's), (13, 36615), (14, 36600),

Gene: Rideau_75 Start: 37408, Stop: 37175, Start Num: 3

Candidate Starts for Rideau_75:

(1, 37486), (Start: 3 @37408 has 2 MA's), (7, 37390), (16, 37291), (19, 37192),

Gene: Romero_72 Start: 37268, Stop: 37014, Start Num: 2

Candidate Starts for Romero_72:

(Start: 2 @37268 has 14 MA's), (7, 37241), (10, 37226), (15, 37166), (16, 37145), (20, 37028),

Gene: Stella_73 Start: 37850, Stop: 37584, Start Num: 3

Candidate Starts for Stella_73:

(1, 37928), (Start: 3 @37850 has 2 MA's), (4, 37841), (5, 37823), (13, 37757), (17, 37688), (18, 37613),

Gene: ToriToki_72 Start: 37271, Stop: 37017, Start Num: 2

Candidate Starts for ToriToki_72:

(Start: 2 @37271 has 14 MA's), (7, 37244), (10, 37229), (15, 37169), (16, 37148), (20, 37031),

Gene: Treat_72 Start: 37146, Stop: 36898, Start Num: 2

Candidate Starts for Treat_72:

(Start: 2 @37146 has 14 MA's), (7, 37119), (8, 37110), (9, 37107), (15, 37050), (16, 37029), (20, 36912),

Gene: Vorvolakos_70 Start: 36686, Stop: 36450, Start Num: 2

Candidate Starts for Vorvolakos_70:

(1, 36761), (Start: 2 @36686 has 14 MA's), (13, 36614), (14, 36599),

Gene: ZooBear_72 Start: 37272, Stop: 37018, Start Num: 2

Candidate Starts for ZooBear_72:

(Start: 2 @37272 has 14 MA's), (7, 37245), (10, 37230), (15, 37170), (16, 37149), (20, 37032),