



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 4799 Report

This analysis was run 04/05/24 on database version 557.

Pham number 4799 has 15 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Boomer_45, TDanisky_44, Seagreen_42, Mutaforma13_43, Sparkdehlily_44
- Track 2 : ShroomBoi_41, Mozy_49, PhesterPhotato_42
- Track 3 : Superphikiman_82, Squint_85, Ariel_84, Porcelain_84
- Track 4 : MiaZeal_85, Lucky2013_82, Courthouse_80

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

The start number called the most often in the published annotations is 3, it was called in 11 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_84, Boomer_45, Mozy_49, Mutaforma13_43, PhesterPhotato_42, Porcelain_84, Seagreen_42, ShroomBoi_41, Sparkdehlily_44, Squint_85, Superphikiman_82, TDanisky_44,

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

- Courthouse_80, Lucky2013_82, MiaZeal_85,

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

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Summary by start number:

Start 2:

- Found in 7 of 15 (46.7%) of genes in pham
- Manual Annotations of this start: 3 of 14
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Courthouse_80 (J), Lucky2013_82 (J), MiaZeal_85 (J),

Start 3:

- Found in 15 of 15 (100.0%) of genes in pham
- Manual Annotations of this start: 11 of 14

- Called 80.0% of time when present
- Phage (with cluster) where this start called: Ariel_84 (J), Boomer_45 (F1), Mozy_49 (F1), Mutaforma13_43 (F1), PhesterPhotato_42 (F1), Porcelain_84 (J), Seagreen_42 (F1), ShroomBoi_41 (F1), Sparkdehlily_44 (F1), Squint_85 (J), Superphikiman_82 (J), TDanisky_44 (F1),

Summary by clusters:

There are 2 clusters represented in this pham: F1, J,

Info for manual annotations of cluster F1:

- Start number 3 was manually annotated 7 times for cluster F1.

Info for manual annotations of cluster J:

- Start number 2 was manually annotated 3 times for cluster J.
- Start number 3 was manually annotated 4 times for cluster J.

Gene Information:

Gene: Ariel_84 Start: 49820, Stop: 49503, Start Num: 3

Candidate Starts for Ariel_84:

(1, 49850), (Start: 2 @49823 has 3 MA's), (Start: 3 @49820 has 11 MA's), (4, 49811), (5, 49727), (6, 49691), (7, 49682), (8, 49676), (10, 49592), (11, 49562),

Gene: Boomer_45 Start: 32801, Stop: 32481, Start Num: 3

Candidate Starts for Boomer_45:

(Start: 3 @32801 has 11 MA's), (9, 32627),

Gene: Courthouse_80 Start: 49423, Stop: 49103, Start Num: 2

Candidate Starts for Courthouse_80:

(1, 49450), (Start: 2 @49423 has 3 MA's), (Start: 3 @49420 has 11 MA's), (4, 49411), (5, 49327), (6, 49291), (7, 49282), (8, 49276), (10, 49192), (11, 49162),

Gene: Lucky2013_82 Start: 49839, Stop: 49519, Start Num: 2

Candidate Starts for Lucky2013_82:

(1, 49866), (Start: 2 @49839 has 3 MA's), (Start: 3 @49836 has 11 MA's), (4, 49827), (5, 49743), (6, 49707), (7, 49698), (8, 49692), (10, 49608), (11, 49578),

Gene: MiaZeal_85 Start: 50495, Stop: 50175, Start Num: 2

Candidate Starts for MiaZeal_85:

(1, 50522), (Start: 2 @50495 has 3 MA's), (Start: 3 @50492 has 11 MA's), (4, 50483), (5, 50399), (6, 50363), (7, 50354), (8, 50348), (10, 50264), (11, 50234),

Gene: Mozy_49 Start: 34164, Stop: 33847, Start Num: 3

Candidate Starts for Mozy_49:

(Start: 3 @34164 has 11 MA's), (9, 33990), (12, 33900),

Gene: Mutaforma13_43 Start: 32743, Stop: 32423, Start Num: 3

Candidate Starts for Mutaforma13_43:

(Start: 3 @32743 has 11 MA's), (9, 32569),

Gene: PhesterPhotato_42 Start: 32468, Stop: 32151, Start Num: 3

Candidate Starts for PhesterPhotato_42:

(Start: 3 @32468 has 11 MA's), (9, 32294), (12, 32204),

Gene: Porcelain_84 Start: 50492, Stop: 50175, Start Num: 3

Candidate Starts for Porcelain_84:

(1, 50522), (Start: 2 @50495 has 3 MA's), (Start: 3 @50492 has 11 MA's), (4, 50483), (5, 50399), (6, 50363), (7, 50354), (8, 50348), (10, 50264), (11, 50234),

Gene: Seagreen_42 Start: 31778, Stop: 31458, Start Num: 3

Candidate Starts for Seagreen_42:

(Start: 3 @31778 has 11 MA's), (9, 31604),

Gene: ShroomBoi_41 Start: 31609, Stop: 31292, Start Num: 3

Candidate Starts for ShroomBoi_41:

(Start: 3 @31609 has 11 MA's), (9, 31435), (12, 31345),

Gene: Sparkdehlily_44 Start: 32421, Stop: 32101, Start Num: 3

Candidate Starts for Sparkdehlily_44:

(Start: 3 @32421 has 11 MA's), (9, 32247),

Gene: Squint_85 Start: 50611, Stop: 50294, Start Num: 3

Candidate Starts for Squint_85:

(1, 50641), (Start: 2 @50614 has 3 MA's), (Start: 3 @50611 has 11 MA's), (4, 50602), (5, 50518), (6, 50482), (7, 50473), (8, 50467), (10, 50383), (11, 50353),

Gene: Superphikiman_82 Start: 49702, Stop: 49385, Start Num: 3

Candidate Starts for Superphikiman_82:

(1, 49732), (Start: 2 @49705 has 3 MA's), (Start: 3 @49702 has 11 MA's), (4, 49693), (5, 49609), (6, 49573), (7, 49564), (8, 49558), (10, 49474), (11, 49444),

Gene: TDanisky_44 Start: 32421, Stop: 32101, Start Num: 3

Candidate Starts for TDanisky_44:

(Start: 3 @32421 has 11 MA's), (9, 32247),