

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 193234 Report

This analysis was run 11/02/24 on database version 579.

Pham number 193234 has 6 members, 0 are drafts.

Phages represented in each track:

Track 1 : PauloDiaboli_72

Track 2 : A3Wally_73

• Track 3 : Big4_64

Track 4 : Zooman_60Track 5 : Cece 59

Track 6 : Pumpernickel_75

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

The start number called the most often in the published annotations is 4, it was called in 4 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

A3Wally_73, Big4_64, Cece_59, Zooman_60,

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

PauloDiaboli_72,

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

Pumpernickel_75,

Summary by start number:

Start 3:

- Found in 1 of 6 (16.7%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pumpernickel_75 (GD4),

Start 4:

- Found in 5 of 6 (83.3%) of genes in pham
- Manual Annotations of this start: 4 of 6
- Called 80.0% of time when present

• Phage (with cluster) where this start called: A3Wally_73 (GD1), Big4_64 (GD2), Cece_59 (GD3), Zooman_60 (GD2),

Start 5:

- Found in 6 of 6 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 16.7% of time when present
- Phage (with cluster) where this start called: PauloDiaboli_72 (GD1),

Summary by clusters:

There are 4 clusters represented in this pham: GD1, GD2, GD3, GD4,

Info for manual annotations of cluster GD1:

- •Start number 4 was manually annotated 1 time for cluster GD1.
- •Start number 5 was manually annotated 1 time for cluster GD1.

Info for manual annotations of cluster GD2:

•Start number 4 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

•Start number 4 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

•Start number 3 was manually annotated 1 time for cluster GD4.

Gene Information:

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Gene: A3Wally_73 Start: 23945, Stop: 26236, Start Num: 4
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Candidate Starts for A3Wally 73:

(Start: 4 @ 23945 has 4 MA's), (Start: 5 @ 23987 has 1 MA's), (6, 23996), (11, 24173), (12, 24188), (15, 24395), (18, 24551), (19, 24554), (21, 24635), (22, 24788), (25, 24890), (28, 25016), (33, 25364), (34, 25370), (36, 25487), (39, 25532), (40, 25571), (44, 25631), (48, 25727), (49, 25781), (50, 25787), (51, 25814), (57, 25958), (60, 25979), (61, 25997),

Gene: Big4_64 Start: 24020, Stop: 26320, Start Num: 4

Candidate Starts for Big4 64:

(Start: 4 @ 24020 has 4 MA's), (Start: 5 @ 24062 has 1 MA's), (6, 24071), (8, 24125), (10, 24179), (11, 24248), (13, 24335), (18, 24632), (19, 24635), (22, 24869), (26, 25013), (31, 25298), (36, 25568), (39, 25613), (40, 25652), (41, 25667), (49, 25856), (50, 25862), (53, 25919), (56, 26009), (61, 26072), (62, 26075), (65, 26306),

Gene: Cece_59 Start: 22539, Stop: 24836, Start Num: 4

Candidate Starts for Cece_59:

(1, 22440), (2, 22455), (Start: 4 @22539 has 4 MA's), (Start: 5 @22581 has 1 MA's), (6, 22590), (8, 22644), (11, 22767), (13, 22854), (15, 22995), (17, 23133), (22, 23388), (27, 23607), (28, 23622), (29, 23637), (33, 23970), (34, 23976), (35, 23988), (36, 24093), (38, 24117), (39, 24138), (40, 24177), (43, 24222), (44, 24231), (45, 24243), (46, 24279), (47, 24282), (49, 24381), (50, 24387), (52, 24441), (53, 24444), (54, 24474), (55, 24483), (58, 24567), (61, 24597), (62, 24600), (63, 24642), (65, 24822),

Gene: PauloDiaboli_72 Start: 23344, Stop: 25593, Start Num: 5

Candidate Starts for PauloDiaboli 72:

(Start: 4 @23302 has 4 MA's), (Start: 5 @23344 has 1 MA's), (6, 23353), (11, 23530), (12, 23545), (15, 23752), (18, 23908), (19, 23911), (21, 23992), (22, 24145), (25, 24247), (28, 24373), (33, 24721), (34, 24727), (36, 24844), (39, 24889), (40, 24928), (44, 24988), (48, 25084), (49, 25138), (50, 25144), (51, 25171), (57, 25315), (60, 25336), (61, 25354),

Gene: Pumpernickel_75 Start: 27251, Stop: 29614, Start Num: 3 Candidate Starts for Pumpernickel 75:

(Start: 3 @27251 has 1 MA's), (Start: 5 @27353 has 1 MA's), (6, 27362), (7, 27398), (9, 27422), (11, 27539), (13, 27626), (14, 27758), (16, 27785), (20, 27944), (23, 28235), (30, 28505), (32, 28673), (37, 28886), (39, 28913), (42, 28979), (44, 29012), (48, 29108), (53, 29225), (59, 29357), (61, 29378), (62, 29381), (63, 29423), (64, 29507),

Gene: Zooman_60 Start: 22688, Stop: 24988, Start Num: 4 Candidate Starts for Zooman_60:

(Start: 4 @22688 has 4 MA's), (Start: 5 @22730 has 1 MA's), (6, 22739), (8, 22793), (10, 22847), (11, 22916), (13, 23003), (18, 23300), (19, 23303), (22, 23537), (24, 23630), (26, 23681), (27, 23750), (31, 23966), (33, 24113), (34, 24119), (36, 24236), (39, 24281), (40, 24320), (41, 24335), (50, 24530), (53, 24587), (56, 24677), (61, 24740), (62, 24743), (65, 24974),