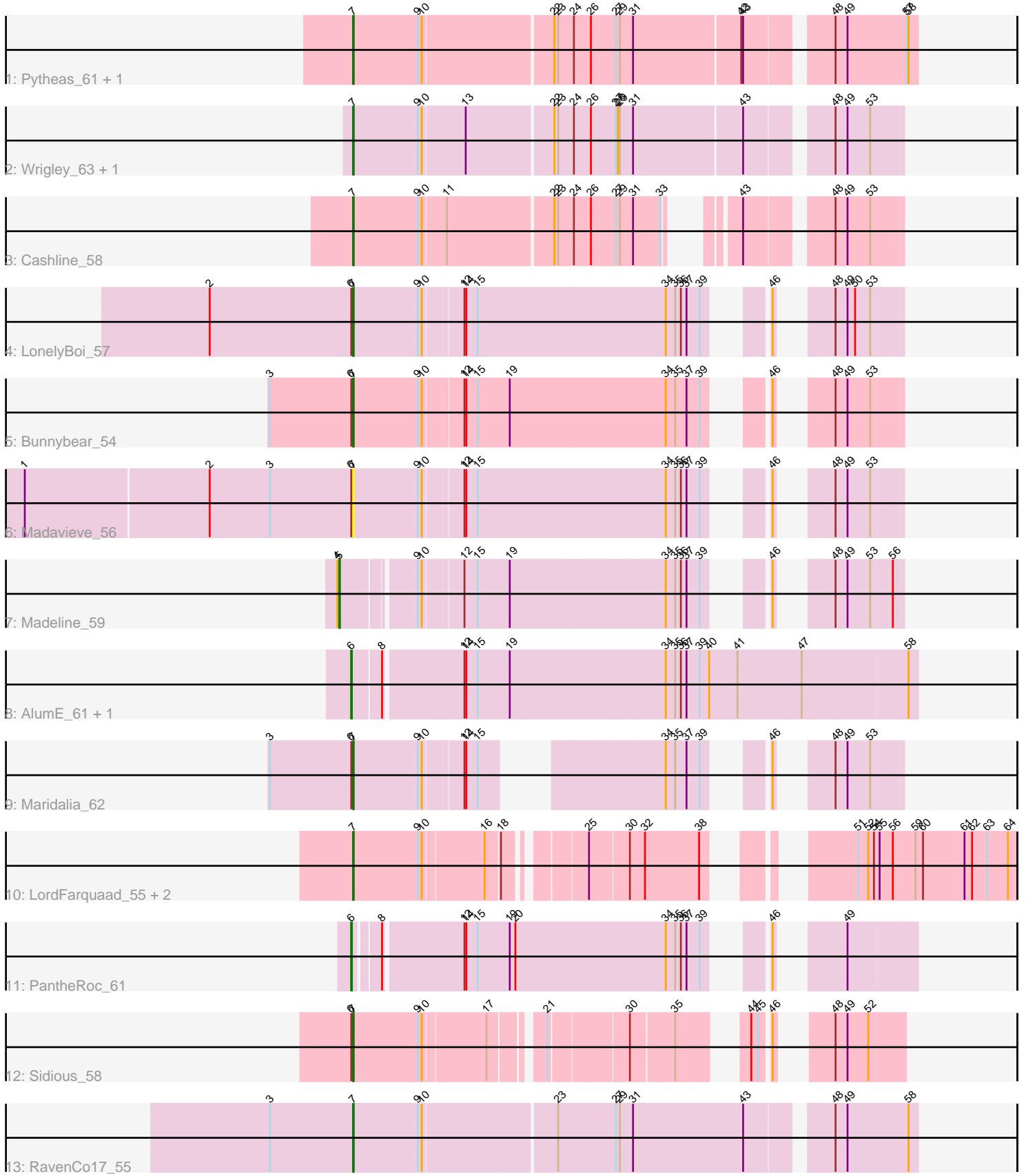


# Pham 295148



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 295148 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295148 has 18 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Pytheas\_61, Jablanski\_61
- Track 2 : Wrigley\_63, Posh\_61
- Track 3 : Cashline\_58
- Track 4 : LonelyBoi\_57
- Track 5 : Bunnybear\_54
- Track 6 : Madavieve\_56
- Track 7 : Madeline\_59
- Track 8 : AlumE\_61, BoyNamedSue\_61
- Track 9 : Maridalia\_62
- Track 10 : LordFarquaad\_55, Attis\_53, SoilAssassin\_53
- Track 11 : PantheRoc\_61
- Track 12 : Sidious\_58
- Track 13 : RavenCo17\_55

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

The start number called the most often in the published annotations is 7, it was called in 13 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Attis\_53, Bunnybear\_54, Cashline\_58, Jablanski\_61, LonelyBoi\_57, LordFarquaad\_55, Madavieve\_56, Maridalia\_62, Posh\_61, Pytheas\_61, RavenCo17\_55, Sidious\_58, SoilAssassin\_53, Wrigley\_63,

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

- 

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

- AlumE\_61, BoyNamedSue\_61, Madeline\_59, PantheRoc\_61,

### **Summary by start number:**

Start 5:

- 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: Madeline\_59 (CZ1),

Start 6:

- Found in 8 of 18 ( 44.4% ) of genes in pham
- Manual Annotations of this start: 3 of 17
- Called 37.5% of time when present
- Phage (with cluster) where this start called: AlumE\_61 (CZ1), BoyNamedSue\_61 (CZ1), PantheRoc\_61 (CZ3),

Start 7:

- Found in 14 of 18 ( 77.8% ) of genes in pham
- Manual Annotations of this start: 13 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Attis\_53 (CZ2), Bunnybear\_54 (CZ), Cashline\_58 (CY6), Jablanski\_61 (CY3), LonelyBoi\_57 (CY7), LordFarquaad\_55 (CZ2), Madavieve\_56 (CZ1), Maridalia\_62 (CZ1), Posh\_61 (CY4), Pytheas\_61 (CY3), RavenCo17\_55 (CZ8), Sidious\_58 (CZ7), SoilAssassin\_53 (CZ2), Wrigley\_63 (CY4),

### Summary by clusters:

There are 10 clusters represented in this pham: CY3, CZ8, CY7, CY6, CY4, CZ2, CZ3, CZ1, CZ7, CZ,

Info for manual annotations of cluster CY3:

- Start number 7 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:

- Start number 7 was manually annotated 2 times for cluster CY4.

Info for manual annotations of cluster CY6:

- Start number 7 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:

- Start number 7 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster CZ:

- Start number 7 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 5 was manually annotated 1 time for cluster CZ1.
- Start number 6 was manually annotated 2 times for cluster CZ1.
- Start number 7 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 7 was manually annotated 3 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 6 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ7:

- Start number 7 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster CZ8:

•Start number 7 was manually annotated 1 time for cluster CZ8.

**Gene Information:**

Gene: AlumE\_61 Start: 42619, Stop: 43485, Start Num: 6

Candidate Starts for AlumE\_61:

(Start: 6 @42619 has 3 MA's), (8, 42661), (12, 42778), (14, 42781), (15, 42799), (19, 42847), (34, 43090), (35, 43105), (36, 43114), (37, 43123), (39, 43144), (40, 43159), (41, 43204), (47, 43306), (58, 43471),

Gene: Attis\_53 Start: 37987, Stop: 38856, Start Num: 7

Candidate Starts for Attis\_53:

(Start: 7 @37987 has 13 MA's), (9, 38089), (10, 38095), (16, 38182), (18, 38203), (25, 38302), (30, 38359), (32, 38383), (38, 38467), (51, 38605), (52, 38620), (54, 38629), (55, 38638), (56, 38659), (59, 38695), (60, 38707), (61, 38773), (62, 38785), (63, 38809), (64, 38842),

Gene: BoyNamedSue\_61 Start: 42619, Stop: 43485, Start Num: 6

Candidate Starts for BoyNamedSue\_61:

(Start: 6 @42619 has 3 MA's), (8, 42661), (12, 42778), (14, 42781), (15, 42799), (19, 42847), (34, 43090), (35, 43105), (36, 43114), (37, 43123), (39, 43144), (40, 43159), (41, 43204), (47, 43306), (58, 43471),

Gene: Bunnybear\_54 Start: 40340, Stop: 41068, Start Num: 7

Candidate Starts for Bunnybear\_54:

(3, 40208), (Start: 6 @40337 has 3 MA's), (Start: 7 @40340 has 13 MA's), (9, 40442), (10, 40448), (12, 40505), (14, 40508), (15, 40526), (19, 40574), (34, 40817), (35, 40832), (37, 40850), (39, 40871), (46, 40919), (48, 40967), (49, 40985), (53, 41021),

Gene: Cashline\_58 Start: 42619, Stop: 43353, Start Num: 7

Candidate Starts for Cashline\_58:

(Start: 7 @42619 has 13 MA's), (9, 42721), (10, 42727), (11, 42763), (22, 42922), (23, 42928), (24, 42952), (26, 42979), (27, 43018), (29, 43024), (31, 43045), (33, 43087), (43, 43135), (48, 43252), (49, 43270), (53, 43306),

Gene: Jablanski\_61 Start: 44335, Stop: 45168, Start Num: 7

Candidate Starts for Jablanski\_61:

(Start: 7 @44335 has 13 MA's), (9, 44437), (10, 44443), (22, 44638), (23, 44644), (24, 44668), (26, 44695), (27, 44734), (29, 44740), (31, 44761), (42, 44923), (43, 44926), (48, 45043), (49, 45061), (57, 45151), (58, 45154),

Gene: LonelyBoi\_57 Start: 43370, Stop: 44098, Start Num: 7

Candidate Starts for LonelyBoi\_57:

(2, 43142), (Start: 6 @43367 has 3 MA's), (Start: 7 @43370 has 13 MA's), (9, 43472), (10, 43478), (12, 43535), (14, 43538), (15, 43556), (34, 43847), (35, 43862), (36, 43871), (37, 43880), (39, 43901), (46, 43949), (48, 43997), (49, 44015), (50, 44027), (53, 44051),

Gene: LordFarquaad\_55 Start: 37968, Stop: 38837, Start Num: 7

Candidate Starts for LordFarquaad\_55:

(Start: 7 @37968 has 13 MA's), (9, 38070), (10, 38076), (16, 38163), (18, 38184), (25, 38283), (30, 38340), (32, 38364), (38, 38448), (51, 38586), (52, 38601), (54, 38610), (55, 38619), (56, 38640), (59, 38676), (60, 38688), (61, 38754), (62, 38766), (63, 38790), (64, 38823),

Gene: Madavieve\_56 Start: 41290, Stop: 42018, Start Num: 7

Candidate Starts for Madavieve\_56:

(1, 40774), (2, 41062), (3, 41158), (Start: 6 @41287 has 3 MA's), (Start: 7 @41290 has 13 MA's), (9, 41392), (10, 41398), (12, 41455), (14, 41458), (15, 41476), (34, 41767), (35, 41782), (36, 41791), (37, 41800), (39, 41821), (46, 41869), (48, 41917), (49, 41935), (53, 41971),

Gene: Madeline\_59 Start: 42737, Stop: 43465, Start Num: 5

Candidate Starts for Madeline\_59:

(4, 42734), (Start: 5 @42737 has 1 MA's), (9, 42839), (10, 42845), (12, 42902), (15, 42923), (19, 42971), (34, 43214), (35, 43229), (36, 43238), (37, 43247), (39, 43268), (46, 43316), (48, 43364), (49, 43382), (53, 43418), (56, 43451),

Gene: Maridalia\_62 Start: 42086, Stop: 42730, Start Num: 7

Candidate Starts for Maridalia\_62:

(3, 41954), (Start: 6 @42083 has 3 MA's), (Start: 7 @42086 has 13 MA's), (9, 42188), (10, 42194), (12, 42251), (14, 42254), (15, 42272), (34, 42479), (35, 42494), (37, 42512), (39, 42533), (46, 42581), (48, 42629), (49, 42647), (53, 42683),

Gene: PantheRoc\_61 Start: 42101, Stop: 42841, Start Num: 6

Candidate Starts for PantheRoc\_61:

(Start: 6 @42101 has 3 MA's), (8, 42137), (12, 42254), (14, 42257), (15, 42275), (19, 42323), (20, 42332), (34, 42566), (35, 42581), (36, 42590), (37, 42599), (39, 42620), (46, 42668), (49, 42734),

Gene: Posh\_61 Start: 43219, Stop: 44028, Start Num: 7

Candidate Starts for Posh\_61:

(Start: 7 @43219 has 13 MA's), (9, 43321), (10, 43327), (13, 43393), (22, 43522), (23, 43528), (24, 43552), (26, 43579), (27, 43618), (28, 43621), (29, 43624), (31, 43645), (43, 43810), (48, 43927), (49, 43945), (53, 43981),

Gene: Pytheas\_61 Start: 44334, Stop: 45167, Start Num: 7

Candidate Starts for Pytheas\_61:

(Start: 7 @44334 has 13 MA's), (9, 44436), (10, 44442), (22, 44637), (23, 44643), (24, 44667), (26, 44694), (27, 44733), (29, 44739), (31, 44760), (42, 44922), (43, 44925), (48, 45042), (49, 45060), (57, 45150), (58, 45153),

Gene: RavenCo17\_55 Start: 40642, Stop: 41484, Start Num: 7

Candidate Starts for RavenCo17\_55:

(3, 40510), (Start: 7 @40642 has 13 MA's), (9, 40744), (10, 40750), (23, 40951), (27, 41041), (29, 41047), (31, 41068), (43, 41242), (48, 41359), (49, 41377), (58, 41470),

Gene: Sidious\_58 Start: 41569, Stop: 42261, Start Num: 7

Candidate Starts for Sidious\_58:

(Start: 6 @41566 has 3 MA's), (Start: 7 @41569 has 13 MA's), (9, 41671), (10, 41677), (17, 41767), (21, 41836), (30, 41950), (35, 42016), (44, 42085), (45, 42094), (46, 42106), (48, 42154), (49, 42172), (52, 42205),

Gene: SoilAssassin\_53 Start: 37986, Stop: 38855, Start Num: 7

Candidate Starts for SoilAssassin\_53:

(Start: 7 @37986 has 13 MA's), (9, 38088), (10, 38094), (16, 38181), (18, 38202), (25, 38301), (30, 38358), (32, 38382), (38, 38466), (51, 38604), (52, 38619), (54, 38628), (55, 38637), (56, 38658), (59, 38694), (60, 38706), (61, 38772), (62, 38784), (63, 38808), (64, 38841),

Gene: Wrigley\_63 Start: 42802, Stop: 43611, Start Num: 7

Candidate Starts for Wrigley\_63:

(Start: 7 @42802 has 13 MA's), (9, 42904), (10, 42910), (13, 42976), (22, 43105), (23, 43111), (24, 43135), (26, 43162), (27, 43201), (28, 43204), (29, 43207), (31, 43228), (43, 43393), (48, 43510), (49, 43528), (53, 43564),