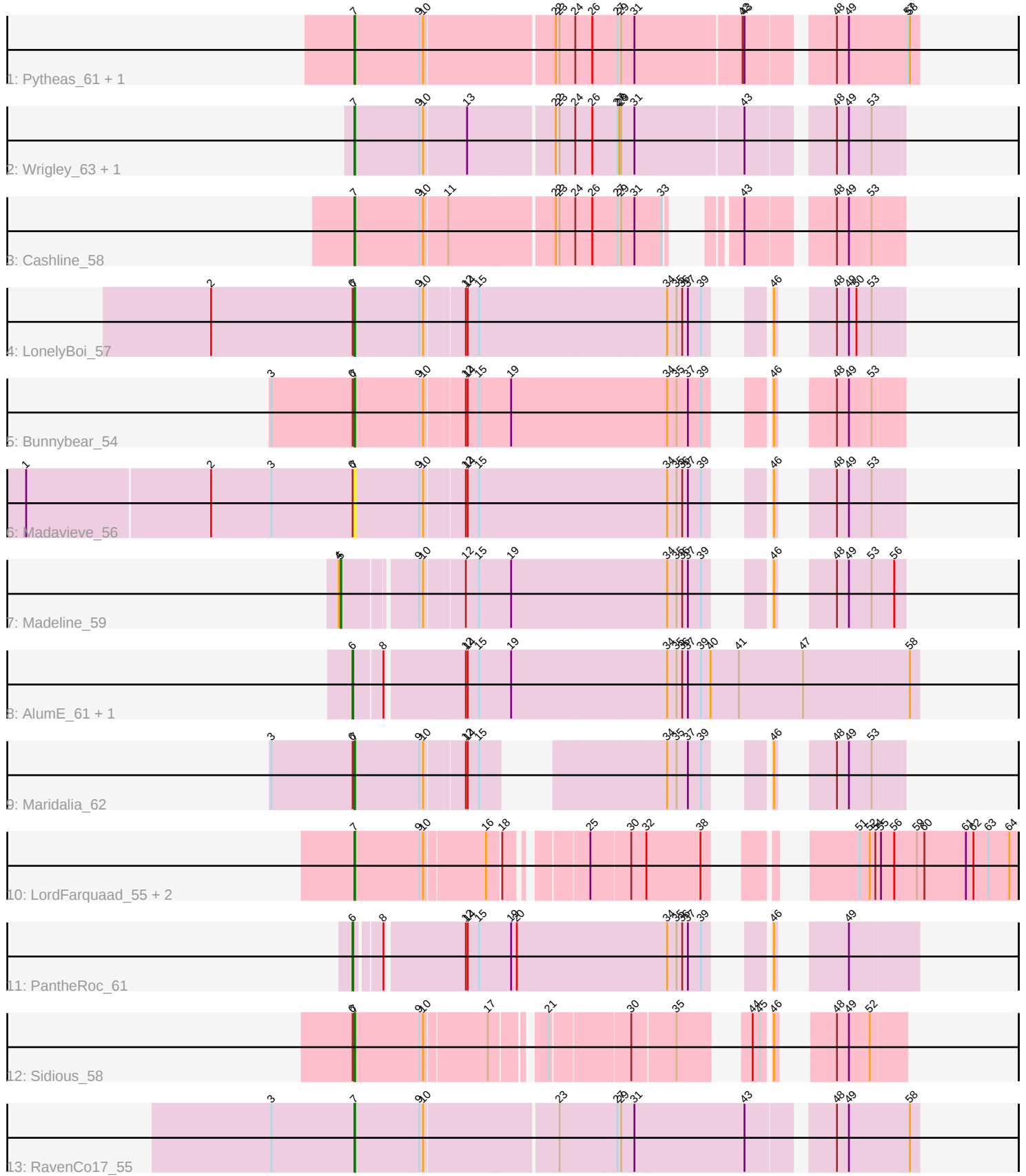


Pham 280931



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 280931 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280931 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),