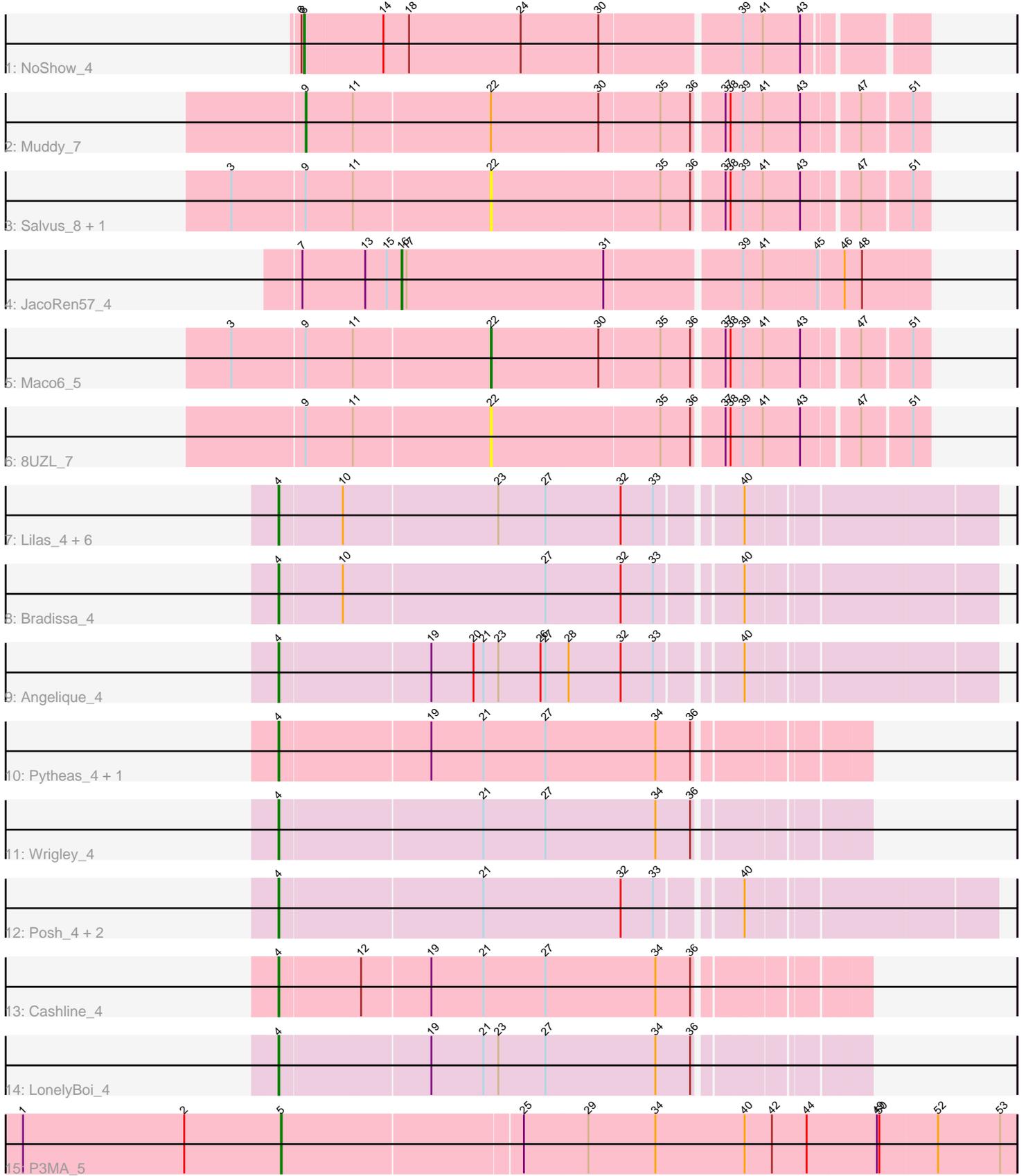


Pham 284113



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 284113 Report

This analysis was run 02/23/26 on database version 636.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 284113 has 25 members, 3 are drafts.

Phages represented in each track:

- Track 1 : NoShow_4
- Track 2 : Muddy_7
- Track 3 : Salvus_8, LongHai_8
- Track 4 : JacoRen57_4
- Track 5 : Maco6_5
- Track 6 : 8UZL_7
- Track 7 : Lilas_4, Pollux_4, EMSquaredA_4, BritBrat_4, Floral_4, EnalisNailo_4, Marteena_4
- Track 8 : Bradissa_4
- Track 9 : Angelique_4
- Track 10 : Pytheas_4, Jablanski_4
- Track 11 : Wrigley_4
- Track 12 : Posh_4, Confidence_4, BeeGee_4
- Track 13 : Cashline_4
- Track 14 : LonelyBoi_4
- Track 15 : P3MA_5

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 17 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Angelique_4, BeeGee_4, Bradissa_4, BritBrat_4, Cashline_4, Confidence_4, EMSquaredA_4, EnalisNailo_4, Floral_4, Jablanski_4, Lilas_4, LonelyBoi_4, Marteena_4, Pollux_4, Posh_4, Pytheas_4, Wrigley_4,

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

-

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

- 8UZL_7, JacoRen57_4, LongHai_8, Maco6_5, Muddy_7, NoShow_4, P3MA_5, Salvus_8,

Summary by start number:

Start 4:

- Found in 17 of 25 (68.0%) of genes in pham
- Manual Annotations of this start: 17 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angelique_4 (CY1), BeeGee_4 (CY5), Bradissa_4 (CY1), BritBrat_4 (CY2), Cashline_4 (CY6), Confidence_4 (CY1), EMSquaredA_4 (CY1), EnalisNailo_4 (CY1), Floral_4 (CY1), Jablanski_4 (CY3), Lilas_4 (CY1), LonelyBoi_4 (CY7), Marteena_4 (CY1), Pollux_4 (CY1), Posh_4 (CY4), Pytheas_4 (CY3), Wrigley_4 (CY4),

Start 5:

- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: P3MA_5 (singleton),

Start 8:

- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoShow_4 (AB),

Start 9:

- Found in 5 of 25 (20.0%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Muddy_7 (AB),

Start 16:

- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JacoRen57_4 (AB),

Start 22:

- Found in 5 of 25 (20.0%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 80.0% of time when present
- Phage (with cluster) where this start called: 8UZL_7 (AB), LongHai_8 (AB), Maco6_5 (AB), Salvus_8 (AB),

Summary by clusters:

There are 9 clusters represented in this pham: CY3, CY2, CY1, AB, CY7, CY6, CY5, CY4, singleton,

Info for manual annotations of cluster AB:

- Start number 8 was manually annotated 1 time for cluster AB.
- Start number 9 was manually annotated 1 time for cluster AB.
- Start number 16 was manually annotated 1 time for cluster AB.
- Start number 22 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster CY1:

- Start number 4 was manually annotated 9 times for cluster CY1.

Info for manual annotations of cluster CY2:

- Start number 4 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY3:

- Start number 4 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:

- Start number 4 was manually annotated 2 times for cluster CY4.

Info for manual annotations of cluster CY5:

- Start number 4 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY6:

- Start number 4 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:

- Start number 4 was manually annotated 1 time for cluster CY7.

Gene Information:

Gene: 8UZL_7 Start: 5062, Stop: 5550, Start Num: 22

Candidate Starts for 8UZL_7:

(Start: 9 @4843 has 1 MA's), (11, 4900), (Start: 22 @5062 has 1 MA's), (35, 5263), (36, 5299), (37, 5329), (38, 5335), (39, 5350), (41, 5374), (43, 5416), (47, 5473), (51, 5530),

Gene: Angelique_4 Start: 3707, Stop: 4519, Start Num: 4

Candidate Starts for Angelique_4:

(Start: 4 @3707 has 17 MA's), (19, 3884), (20, 3935), (21, 3947), (23, 3965), (26, 4016), (27, 4022), (28, 4049), (32, 4112), (33, 4151), (40, 4238),

Gene: BeeGee_4 Start: 3710, Stop: 4522, Start Num: 4

Candidate Starts for BeeGee_4:

(Start: 4 @3710 has 17 MA's), (21, 3950), (32, 4115), (33, 4154), (40, 4241),

Gene: Bradissa_4 Start: 3716, Stop: 4528, Start Num: 4

Candidate Starts for Bradissa_4:

(Start: 4 @3716 has 17 MA's), (10, 3791), (27, 4031), (32, 4121), (33, 4160), (40, 4247),

Gene: BritBrat_4 Start: 3716, Stop: 4528, Start Num: 4

Candidate Starts for BritBrat_4:

(Start: 4 @3716 has 17 MA's), (10, 3791), (23, 3974), (27, 4031), (32, 4121), (33, 4160), (40, 4247),

Gene: Cashline_4 Start: 3710, Stop: 4375, Start Num: 4

Candidate Starts for Cashline_4:

(Start: 4 @3710 has 17 MA's), (12, 3806), (19, 3887), (21, 3950), (27, 4025), (34, 4157), (36, 4199),

Gene: Confidence_4 Start: 3710, Stop: 4522, Start Num: 4

Candidate Starts for Confidence_4:

(Start: 4 @3710 has 17 MA's), (21, 3950), (32, 4115), (33, 4154), (40, 4241),

Gene: EMSquaredA_4 Start: 3716, Stop: 4528, Start Num: 4

Candidate Starts for EMSquaredA_4:

(Start: 4 @3716 has 17 MA's), (10, 3791), (23, 3974), (27, 4031), (32, 4121), (33, 4160), (40, 4247),

Gene: EnalisNailo_4 Start: 3716, Stop: 4528, Start Num: 4

Candidate Starts for EnalisNailo_4:

(Start: 4 @3716 has 17 MA's), (10, 3791), (23, 3974), (27, 4031), (32, 4121), (33, 4160), (40, 4247),

Gene: Floral_4 Start: 3716, Stop: 4528, Start Num: 4

Candidate Starts for Floral_4:

(Start: 4 @3716 has 17 MA's), (10, 3791), (23, 3974), (27, 4031), (32, 4121), (33, 4160), (40, 4247),

Gene: Jablanski_4 Start: 3710, Stop: 4375, Start Num: 4

Candidate Starts for Jablanski_4:

(Start: 4 @3710 has 17 MA's), (19, 3887), (21, 3950), (27, 4025), (34, 4157), (36, 4199),

Gene: JacoRen57_4 Start: 3951, Stop: 4562, Start Num: 16

Candidate Starts for JacoRen57_4:

(7, 3834), (13, 3909), (15, 3933), (Start: 16 @3951 has 1 MA's), (17, 3957), (31, 4191), (39, 4344), (41, 4368), (45, 4431), (46, 4461), (48, 4482),

Gene: Lilas_4 Start: 3716, Stop: 4528, Start Num: 4

Candidate Starts for Lilas_4:

(Start: 4 @3716 has 17 MA's), (10, 3791), (23, 3974), (27, 4031), (32, 4121), (33, 4160), (40, 4247),

Gene: LonelyBoi_4 Start: 3710, Stop: 4375, Start Num: 4

Candidate Starts for LonelyBoi_4:

(Start: 4 @3710 has 17 MA's), (19, 3887), (21, 3950), (23, 3968), (27, 4025), (34, 4157), (36, 4199),

Gene: LongHai_8 Start: 5367, Stop: 5855, Start Num: 22

Candidate Starts for LongHai_8:

(3, 5064), (Start: 9 @5148 has 1 MA's), (11, 5205), (Start: 22 @5367 has 1 MA's), (35, 5568), (36, 5604), (37, 5634), (38, 5640), (39, 5655), (41, 5679), (43, 5721), (47, 5778), (51, 5835),

Gene: Maco6_5 Start: 4321, Stop: 4809, Start Num: 22

Candidate Starts for Maco6_5:

(3, 4018), (Start: 9 @4102 has 1 MA's), (11, 4159), (Start: 22 @4321 has 1 MA's), (30, 4450), (35, 4522), (36, 4558), (37, 4588), (38, 4594), (39, 4609), (41, 4633), (43, 4675), (47, 4732), (51, 4789),

Gene: Marteena_4 Start: 3716, Stop: 4528, Start Num: 4

Candidate Starts for Marteena_4:

(Start: 4 @3716 has 17 MA's), (10, 3791), (23, 3974), (27, 4031), (32, 4121), (33, 4160), (40, 4247),

Gene: Muddy_7 Start: 5056, Stop: 5763, Start Num: 9

Candidate Starts for Muddy_7:

(Start: 9 @5056 has 1 MA's), (11, 5113), (Start: 22 @5275 has 1 MA's), (30, 5404), (35, 5476), (36, 5512), (37, 5542), (38, 5548), (39, 5563), (41, 5587), (43, 5629), (47, 5686), (51, 5743),

Gene: NoShow_4 Start: 3865, Stop: 4563, Start Num: 8

Candidate Starts for NoShow_4:

(6, 3862), (Start: 8 @3865 has 1 MA's), (14, 3958), (18, 3988), (24, 4123), (30, 4213), (39, 4372), (41, 4396), (43, 4438),

Gene: P3MA_5 Start: 3858, Stop: 4730, Start Num: 5

Candidate Starts for P3MA_5:

(1, 3546), (2, 3741), (Start: 5 @3858 has 1 MA's), (25, 4140), (29, 4215), (34, 4296), (40, 4404), (42, 4437), (44, 4479), (49, 4563), (50, 4566), (52, 4635), (53, 4710),

Gene: Pollux_4 Start: 3716, Stop: 4528, Start Num: 4

Candidate Starts for Pollux_4:

(Start: 4 @3716 has 17 MA's), (10, 3791), (23, 3974), (27, 4031), (32, 4121), (33, 4160), (40, 4247),

Gene: Posh_4 Start: 3710, Stop: 4522, Start Num: 4

Candidate Starts for Posh_4:

(Start: 4 @3710 has 17 MA's), (21, 3950), (32, 4115), (33, 4154), (40, 4241),

Gene: Pytheas_4 Start: 3710, Stop: 4375, Start Num: 4

Candidate Starts for Pytheas_4:

(Start: 4 @3710 has 17 MA's), (19, 3887), (21, 3950), (27, 4025), (34, 4157), (36, 4199),

Gene: Salvus_8 Start: 5367, Stop: 5855, Start Num: 22

Candidate Starts for Salvus_8:

(3, 5064), (Start: 9 @5148 has 1 MA's), (11, 5205), (Start: 22 @5367 has 1 MA's), (35, 5568), (36, 5604), (37, 5634), (38, 5640), (39, 5655), (41, 5679), (43, 5721), (47, 5778), (51, 5835),

Gene: Wrigley_4 Start: 3707, Stop: 4372, Start Num: 4

Candidate Starts for Wrigley_4:

(Start: 4 @3707 has 17 MA's), (21, 3947), (27, 4022), (34, 4154), (36, 4196),