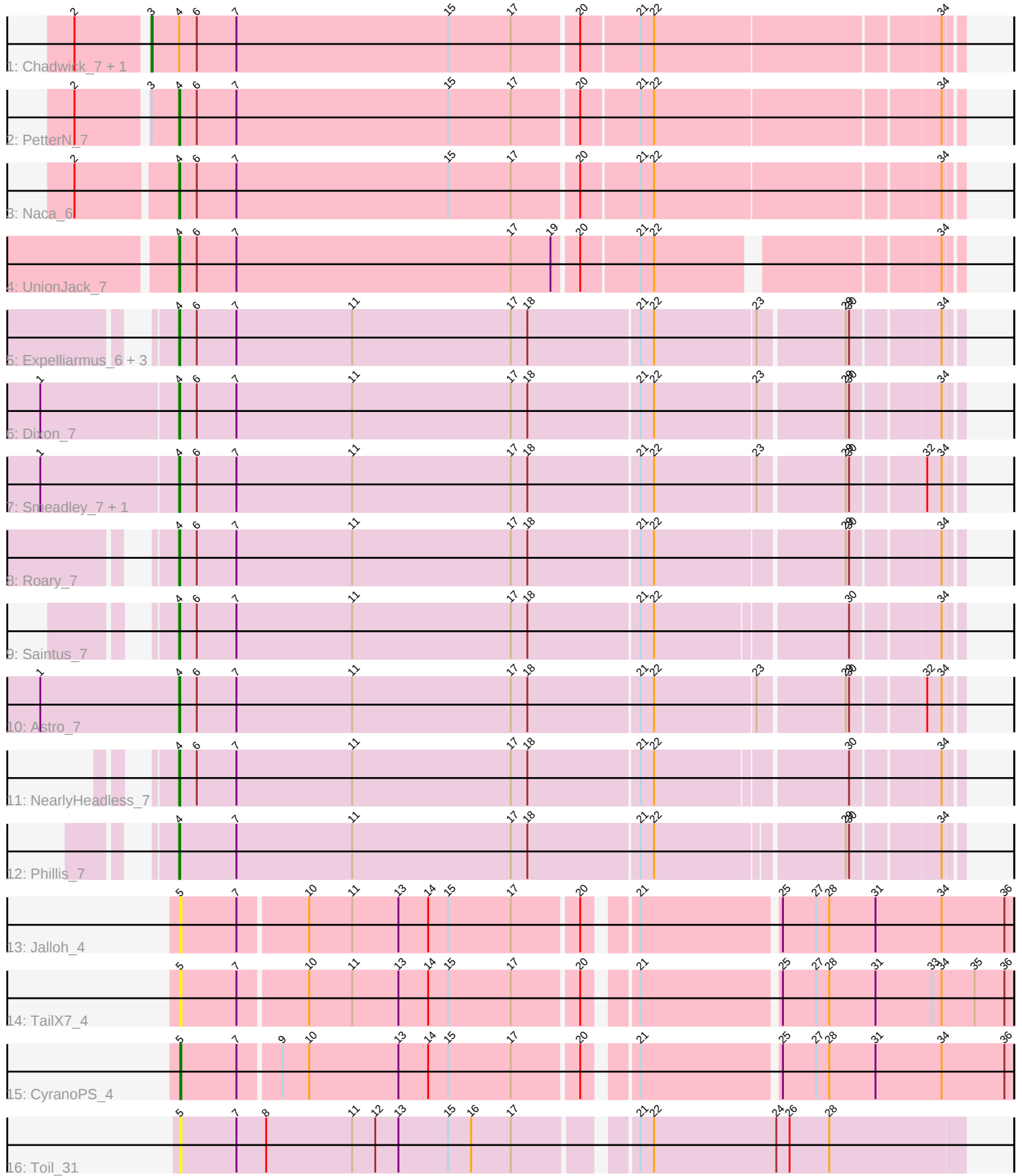


Pham 280866



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 280866 Report

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

Pham number 280866 has 21 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Chadwick_7, Scorpia_7
- Track 2 : PetterN_7
- Track 3 : Naca_6
- Track 4 : UnionJack_7
- Track 5 : Expelliarmus_6, Stephig9_7, Danforth_6, Groundhog_6
- Track 6 : Dixon_7
- Track 7 : Smeadley_7, Caitlin_6
- Track 8 : Roary_7
- Track 9 : Saintus_7
- Track 10 : Astro_7
- Track 11 : NearlyHeadless_7
- Track 12 : Phillis_7
- Track 13 : Jalloh_4
- Track 14 : TailX7_4
- Track 15 : CyranoPS_4
- Track 16 : Toil_31

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

Genes that call this "Most Annotated" start:

- Astro_7, Caitlin_6, Danforth_6, Dixon_7, Expelliarmus_6, Groundhog_6, Naca_6, NearlyHeadless_7, PetterN_7, Phillis_7, Roary_7, Saintus_7, Smeadley_7, Stephig9_7, UnionJack_7,

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

- Chadwick_7, Scorpia_7,

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

- CyranoPS_4, Jalloh_4, TailX7_4, Toil_31,

Summary by start number:

Start 3:

- Found in 3 of 21 (14.3%) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Chadwick_7 (A5), Scorpia_7 (A5),

Start 4:

- Found in 17 of 21 (81.0%) of genes in pham
- Manual Annotations of this start: 14 of 17
- Called 88.2% of time when present
- Phage (with cluster) where this start called: Astro_7 (A8), Caitlin_6 (A8), Danforth_6 (A8), Dixon_7 (A8), Expelliarmus_6 (A8), Groundhog_6 (A8), Naca_6 (A5), NearlyHeadless_7 (A8), PetterN_7 (A5), Phillis_7 (A8), Roary_7 (A8), Saintus_7 (A8), Smeadley_7 (A8), Stephig9_7 (A8), UnionJack_7 (A5),

Start 5:

- Found in 4 of 21 (19.0%) 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: CyranoPS_4 (ER), Jalloh_4 (ER), TailX7_4 (ER), Toil_31 (singleton),

Summary by clusters:

There are 4 clusters represented in this pham: A8, singleton, A5, ER,

Info for manual annotations of cluster A5:

- Start number 3 was manually annotated 2 times for cluster A5.
- Start number 4 was manually annotated 3 times for cluster A5.

Info for manual annotations of cluster A8:

- Start number 4 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster ER:

- Start number 5 was manually annotated 1 time for cluster ER.

Gene Information:

Gene: Astro_7 Start: 4196, Stop: 4876, Start Num: 4

Candidate Starts for Astro_7:

(1, 4070), (Start: 4 @4196 has 14 MA's), (6, 4211), (7, 4247), (11, 4352), (17, 4496), (18, 4511), (21, 4610), (22, 4622), (23, 4712), (29, 4787), (30, 4790), (32, 4850), (34, 4862),

Gene: Caitlin_6 Start: 4193, Stop: 4873, Start Num: 4

Candidate Starts for Caitlin_6:

(1, 4070), (Start: 4 @4193 has 14 MA's), (6, 4208), (7, 4244), (11, 4349), (17, 4493), (18, 4508), (21, 4607), (22, 4619), (23, 4709), (29, 4784), (30, 4787), (32, 4847), (34, 4859),

Gene: Chadwick_7 Start: 4240, Stop: 4944, Start Num: 3

Candidate Starts for Chadwick_7:

(2, 4180), (Start: 3 @4240 has 2 MA's), (Start: 4 @4264 has 14 MA's), (6, 4279), (7, 4315), (15, 4507), (17, 4564), (20, 4621), (21, 4672), (22, 4684), (34, 4930),

Gene: CyranoPS_4 Start: 2898, Stop: 3614, Start Num: 5

Candidate Starts for CyranoPS_4:

(Start: 5 @2898 has 1 MA's), (7, 2949), (9, 2985), (10, 3009), (13, 3090), (14, 3117), (15, 3135), (17, 3192), (20, 3249), (21, 3285), (25, 3405), (27, 3435), (28, 3447), (31, 3489), (34, 3549), (36, 3606),

Gene: Danforth_6 Start: 4175, Stop: 4855, Start Num: 4

Candidate Starts for Danforth_6:

(Start: 4 @4175 has 14 MA's), (6, 4190), (7, 4226), (11, 4331), (17, 4475), (18, 4490), (21, 4589), (22, 4601), (23, 4691), (29, 4766), (30, 4769), (34, 4841),

Gene: Dixon_7 Start: 4194, Stop: 4874, Start Num: 4

Candidate Starts for Dixon_7:

(1, 4071), (Start: 4 @4194 has 14 MA's), (6, 4209), (7, 4245), (11, 4350), (17, 4494), (18, 4509), (21, 4608), (22, 4620), (23, 4710), (29, 4785), (30, 4788), (34, 4860),

Gene: Expelliarmus_6 Start: 4161, Stop: 4841, Start Num: 4

Candidate Starts for Expelliarmus_6:

(Start: 4 @4161 has 14 MA's), (6, 4176), (7, 4212), (11, 4317), (17, 4461), (18, 4476), (21, 4575), (22, 4587), (23, 4677), (29, 4752), (30, 4755), (34, 4827),

Gene: Groundhog_6 Start: 4162, Stop: 4842, Start Num: 4

Candidate Starts for Groundhog_6:

(Start: 4 @4162 has 14 MA's), (6, 4177), (7, 4213), (11, 4318), (17, 4462), (18, 4477), (21, 4576), (22, 4588), (23, 4678), (29, 4753), (30, 4756), (34, 4828),

Gene: Jalloh_4 Start: 2897, Stop: 3613, Start Num: 5

Candidate Starts for Jalloh_4:

(Start: 5 @2897 has 1 MA's), (7, 2948), (10, 3008), (11, 3047), (13, 3089), (14, 3116), (15, 3134), (17, 3191), (20, 3248), (21, 3284), (25, 3404), (27, 3434), (28, 3446), (31, 3488), (34, 3548), (36, 3605),

Gene: Naca_6 Start: 4378, Stop: 5058, Start Num: 4

Candidate Starts for Naca_6:

(2, 4291), (Start: 4 @4378 has 14 MA's), (6, 4393), (7, 4429), (15, 4621), (17, 4678), (20, 4735), (21, 4786), (22, 4798), (34, 5044),

Gene: NearlyHeadless_7 Start: 4201, Stop: 4878, Start Num: 4

Candidate Starts for NearlyHeadless_7:

(Start: 4 @4201 has 14 MA's), (6, 4216), (7, 4252), (11, 4357), (17, 4501), (18, 4516), (21, 4615), (22, 4627), (30, 4792), (34, 4864),

Gene: PetterN_7 Start: 4265, Stop: 4945, Start Num: 4

Candidate Starts for PetterN_7:

(2, 4181), (Start: 3 @4241 has 2 MA's), (Start: 4 @4265 has 14 MA's), (6, 4280), (7, 4316), (15, 4508), (17, 4565), (20, 4622), (21, 4673), (22, 4685), (34, 4931),

Gene: Phillis_7 Start: 4159, Stop: 4836, Start Num: 4

Candidate Starts for Phillis_7:

(Start: 4 @4159 has 14 MA's), (7, 4210), (11, 4315), (17, 4459), (18, 4474), (21, 4573), (22, 4585), (29, 4747), (30, 4750), (34, 4822),

Gene: Roary_7 Start: 4160, Stop: 4840, Start Num: 4

Candidate Starts for Roary_7:

(Start: 4 @4160 has 14 MA's), (6, 4175), (7, 4211), (11, 4316), (17, 4460), (18, 4475), (21, 4574), (22, 4586), (29, 4751), (30, 4754), (34, 4826),

Gene: Saintus_7 Start: 4176, Stop: 4853, Start Num: 4

Candidate Starts for Saintus_7:

(Start: 4 @4176 has 14 MA's), (6, 4191), (7, 4227), (11, 4332), (17, 4476), (18, 4491), (21, 4590), (22, 4602), (30, 4767), (34, 4839),

Gene: Scorpia_7 Start: 4242, Stop: 4946, Start Num: 3

Candidate Starts for Scorpia_7:

(2, 4182), (Start: 3 @4242 has 2 MA's), (Start: 4 @4266 has 14 MA's), (6, 4281), (7, 4317), (15, 4509), (17, 4566), (20, 4623), (21, 4674), (22, 4686), (34, 4932),

Gene: Smeadley_7 Start: 4193, Stop: 4873, Start Num: 4

Candidate Starts for Smeadley_7:

(1, 4070), (Start: 4 @4193 has 14 MA's), (6, 4208), (7, 4244), (11, 4349), (17, 4493), (18, 4508), (21, 4607), (22, 4619), (23, 4709), (29, 4784), (30, 4787), (32, 4847), (34, 4859),

Gene: Stephig9_7 Start: 4161, Stop: 4841, Start Num: 4

Candidate Starts for Stephig9_7:

(Start: 4 @4161 has 14 MA's), (6, 4176), (7, 4212), (11, 4317), (17, 4461), (18, 4476), (21, 4575), (22, 4587), (23, 4677), (29, 4752), (30, 4755), (34, 4827),

Gene: TailX7_4 Start: 2898, Stop: 3614, Start Num: 5

Candidate Starts for TailX7_4:

(Start: 5 @2898 has 1 MA's), (7, 2949), (10, 3009), (11, 3048), (13, 3090), (14, 3117), (15, 3135), (17, 3192), (20, 3249), (21, 3285), (25, 3405), (27, 3435), (28, 3447), (31, 3489), (33, 3540), (34, 3549), (35, 3579), (36, 3606),

Gene: Toil_31 Start: 15291, Stop: 15974, Start Num: 5

Candidate Starts for Toil_31:

(Start: 5 @15291 has 1 MA's), (7, 15342), (8, 15369), (11, 15447), (12, 15468), (13, 15489), (15, 15534), (16, 15555), (17, 15591), (21, 15684), (22, 15696), (24, 15807), (26, 15819), (28, 15855),

Gene: UnionJack_7 Start: 4229, Stop: 4894, Start Num: 4

Candidate Starts for UnionJack_7:

(Start: 4 @4229 has 14 MA's), (6, 4244), (7, 4280), (17, 4529), (19, 4565), (20, 4586), (21, 4637), (22, 4649), (34, 4880),