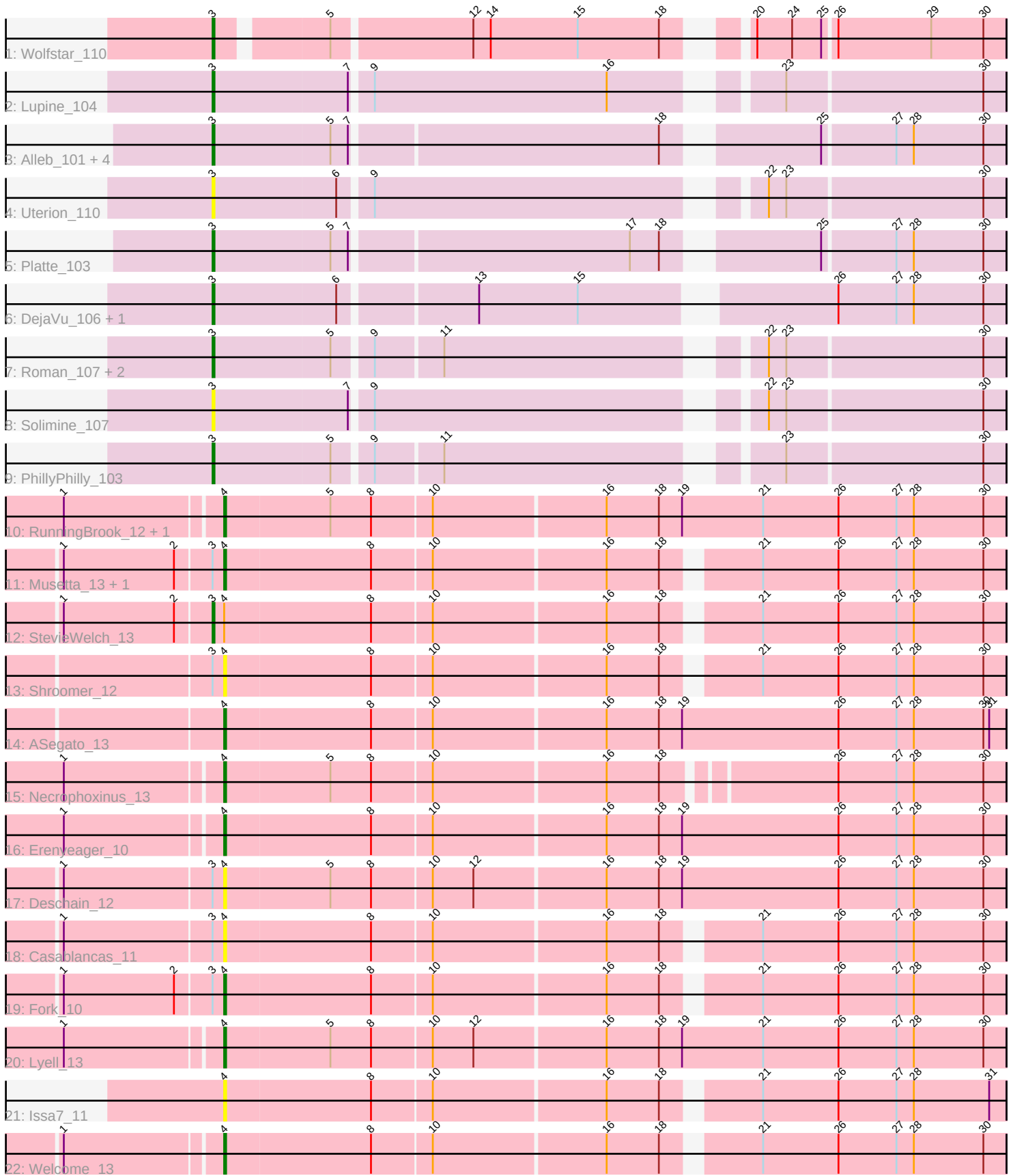


Pham 280720



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 280720 Report

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

Pham number 280720 has 31 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Wolfstar_110
- Track 2 : Lupine_104
- Track 3 : Alleb_101, OlinDD_104, Tandem_104, Pioneer3_104, Hortus1_104
- Track 4 : Uterion_110
- Track 5 : Platte_103
- Track 6 : DejaVu_106, Saradis_107
- Track 7 : Roman_107, Pavlo_106, Hubbs_105
- Track 8 : Solimine_107
- Track 9 : PhillyPhilly_103
- Track 10 : RunningBrook_12, DustyDino_13
- Track 11 : Musetta_13, Yuma_13
- Track 12 : StevieWelch_13
- Track 13 : Shroomer_12
- Track 14 : ASegato_13
- Track 15 : Necrophoxinus_13
- Track 16 : Erenyeager_10
- Track 17 : Deschain_12
- Track 18 : Casablanacas_11
- Track 19 : Fork_10
- Track 20 : Lyell_13
- Track 21 : Issa7_11
- Track 22 : Welcome_13

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

The start number called the most often in the published annotations is 3, it was called in 14 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alleb_101, DejaVu_106, Hortus1_104, Hubbs_105, Lupine_104, OlinDD_104, Pavlo_106, PhillyPhilly_103, Pioneer3_104, Platte_103, Roman_107, Saradis_107, Solimine_107, StevieWelch_13, Tandem_104, Uterion_110, Wolfstar_110,

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

- Casablanacas_11, Deschain_12, Fork_10, Musetta_13, Shroomer_12, Yuma_13,

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

- ASegato_13, DustyDino_13, Erenyeager_10, Issa7_11, Lyell_13, Necrophoxinus_13, RunningBrook_12, Welcome_13,

Summary by start number:

Start 3:

- Found in 23 of 31 (74.2%) of genes in pham
- Manual Annotations of this start: 14 of 24
- Called 73.9% of time when present
- Phage (with cluster) where this start called: Alleb_101 (ED1), DejaVu_106 (ED1), Hortus1_104 (ED1), Hubbs_105 (ED1), Lupine_104 (ED1), OlinDD_104 (ED1), Pavlo_106 (ED1), PhillyPhilly_103 (ED1), Pioneer3_104 (ED1), Platte_103 (ED1), Roman_107 (ED1), Saradis_107 (ED1), Solimine_107 (ED1), StevieWelch_13 (ED2), Tandem_104 (ED1), Uterion_110 (ED1), Wolfstar_110 (ED),

Start 4:

- Found in 15 of 31 (48.4%) of genes in pham
- Manual Annotations of this start: 10 of 24
- Called 93.3% of time when present
- Phage (with cluster) where this start called: ASegato_13 (ED2), Casablanacas_11 (ED2), Deschain_12 (ED2), DustyDino_13 (ED2), Erenyeager_10 (ED2), Fork_10 (ED2), Issa7_11 (ED2), Lyell_13 (ED2), Musetta_13 (ED2), Necrophoxinus_13 (ED2), RunningBrook_12 (ED2), Shroomer_12 (ED2), Welcome_13 (ED2), Yuma_13 (ED2),

Summary by clusters:

There are 3 clusters represented in this pham: ED2, ED, ED1,

Info for manual annotations of cluster ED:

- Start number 3 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:

- Start number 3 was manually annotated 12 times for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 3 was manually annotated 1 time for cluster ED2.
- Start number 4 was manually annotated 10 times for cluster ED2.

Gene Information:

Gene: ASegato_13 Start: 4659, Stop: 5057, Start Num: 4

Candidate Starts for ASegato_13:

(Start: 4 @4659 has 10 MA's), (8, 4734), (10, 4764), (16, 4851), (18, 4878), (19, 4890), (26, 4971), (27, 5001), (28, 5010), (30, 5046), (31, 5049),

Gene: Alleb_101 Start: 56509, Stop: 56129, Start Num: 3

Candidate Starts for Alleb_101:

(Start: 3 @56509 has 14 MA's), (5, 56449), (7, 56440), (18, 56287), (25, 56221), (27, 56185), (28, 56176), (30, 56140),

Gene: Casablanacas_11 Start: 4232, Stop: 4618, Start Num: 4

Candidate Starts for Casablanacas_11:

(1, 4151), (Start: 3 @4226 has 14 MA's), (Start: 4 @4232 has 10 MA's), (8, 4307), (10, 4337), (16, 4424), (18, 4451), (21, 4493), (26, 4532), (27, 4562), (28, 4571), (30, 4607),

Gene: DejaVu_106 Start: 56615, Stop: 56235, Start Num: 3

Candidate Starts for DejaVu_106:

(Start: 3 @56615 has 14 MA's), (6, 56552), (13, 56486), (15, 56435), (26, 56321), (27, 56291), (28, 56282), (30, 56246),

Gene: Deschain_12 Start: 4576, Stop: 4974, Start Num: 4

Candidate Starts for Deschain_12:

(1, 4495), (Start: 3 @4570 has 14 MA's), (Start: 4 @4576 has 10 MA's), (5, 4630), (8, 4651), (10, 4681), (12, 4702), (16, 4768), (18, 4795), (19, 4807), (26, 4888), (27, 4918), (28, 4927), (30, 4963),

Gene: DustyDino_13 Start: 4681, Stop: 5079, Start Num: 4

Candidate Starts for DustyDino_13:

(1, 4603), (Start: 4 @4681 has 10 MA's), (5, 4735), (8, 4756), (10, 4786), (16, 4873), (18, 4900), (19, 4912), (21, 4954), (26, 4993), (27, 5023), (28, 5032), (30, 5068),

Gene: Erenyeager_10 Start: 4052, Stop: 4450, Start Num: 4

Candidate Starts for Erenyeager_10:

(1, 3974), (Start: 4 @4052 has 10 MA's), (8, 4127), (10, 4157), (16, 4244), (18, 4271), (19, 4283), (26, 4364), (27, 4394), (28, 4403), (30, 4439),

Gene: Fork_10 Start: 3946, Stop: 4332, Start Num: 4

Candidate Starts for Fork_10:

(1, 3865), (2, 3922), (Start: 3 @3940 has 14 MA's), (Start: 4 @3946 has 10 MA's), (8, 4021), (10, 4051), (16, 4138), (18, 4165), (21, 4207), (26, 4246), (27, 4276), (28, 4285), (30, 4321),

Gene: Hortus1_104 Start: 57265, Stop: 56885, Start Num: 3

Candidate Starts for Hortus1_104:

(Start: 3 @57265 has 14 MA's), (5, 57205), (7, 57196), (18, 57043), (25, 56977), (27, 56941), (28, 56932), (30, 56896),

Gene: Hubbs_105 Start: 56879, Stop: 56505, Start Num: 3

Candidate Starts for Hubbs_105:

(Start: 3 @56879 has 14 MA's), (5, 56819), (9, 56801), (11, 56768), (22, 56624), (23, 56615), (30, 56516),

Gene: Issa7_11 Start: 3876, Stop: 4262, Start Num: 4

Candidate Starts for Issa7_11:

(Start: 4 @3876 has 10 MA's), (8, 3951), (10, 3981), (16, 4068), (18, 4095), (21, 4137), (26, 4176), (27, 4206), (28, 4215), (31, 4254),

Gene: Lupine_104 Start: 56423, Stop: 56046, Start Num: 3

Candidate Starts for Lupine_104:

(Start: 3 @56423 has 14 MA's), (7, 56354), (9, 56345), (16, 56225), (23, 56156), (30, 56057),

Gene: Lyell_13 Start: 4396, Stop: 4794, Start Num: 4

Candidate Starts for Lyell_13:

(1, 4318), (Start: 4 @4396 has 10 MA's), (5, 4450), (8, 4471), (10, 4501), (12, 4522), (16, 4588), (18, 4615), (19, 4627), (21, 4669), (26, 4708), (27, 4738), (28, 4747), (30, 4783),

Gene: Musetta_13 Start: 4656, Stop: 5042, Start Num: 4

Candidate Starts for Musetta_13:

(1, 4575), (2, 4632), (Start: 3 @4650 has 14 MA's), (Start: 4 @4656 has 10 MA's), (8, 4731), (10, 4761), (16, 4848), (18, 4875), (21, 4917), (26, 4956), (27, 4986), (28, 4995), (30, 5031),

Gene: Necrophoxinus_13 Start: 4772, Stop: 5158, Start Num: 4

Candidate Starts for Necrophoxinus_13:

(1, 4694), (Start: 4 @4772 has 10 MA's), (5, 4826), (8, 4847), (10, 4877), (16, 4964), (18, 4991), (26, 5072), (27, 5102), (28, 5111), (30, 5147),

Gene: OlinDD_104 Start: 57270, Stop: 56890, Start Num: 3

Candidate Starts for OlinDD_104:

(Start: 3 @57270 has 14 MA's), (5, 57210), (7, 57201), (18, 57048), (25, 56982), (27, 56946), (28, 56937), (30, 56901),

Gene: Pavlo_106 Start: 57274, Stop: 56900, Start Num: 3

Candidate Starts for Pavlo_106:

(Start: 3 @57274 has 14 MA's), (5, 57214), (9, 57196), (11, 57163), (22, 57019), (23, 57010), (30, 56911),

Gene: PhillyPhilly_103 Start: 56263, Stop: 55889, Start Num: 3

Candidate Starts for PhillyPhilly_103:

(Start: 3 @56263 has 14 MA's), (5, 56203), (9, 56185), (11, 56152), (23, 55999), (30, 55900),

Gene: Pioneer3_104 Start: 57068, Stop: 56688, Start Num: 3

Candidate Starts for Pioneer3_104:

(Start: 3 @57068 has 14 MA's), (5, 57008), (7, 56999), (18, 56846), (25, 56780), (27, 56744), (28, 56735), (30, 56699),

Gene: Platte_103 Start: 56852, Stop: 56472, Start Num: 3

Candidate Starts for Platte_103:

(Start: 3 @56852 has 14 MA's), (5, 56792), (7, 56783), (17, 56645), (18, 56630), (25, 56564), (27, 56528), (28, 56519), (30, 56483),

Gene: Roman_107 Start: 57323, Stop: 56949, Start Num: 3

Candidate Starts for Roman_107:

(Start: 3 @57323 has 14 MA's), (5, 57263), (9, 57245), (11, 57212), (22, 57068), (23, 57059), (30, 56960),

Gene: RunningBrook_12 Start: 4681, Stop: 5079, Start Num: 4

Candidate Starts for RunningBrook_12:

(1, 4603), (Start: 4 @4681 has 10 MA's), (5, 4735), (8, 4756), (10, 4786), (16, 4873), (18, 4900), (19, 4912), (21, 4954), (26, 4993), (27, 5023), (28, 5032), (30, 5068),

Gene: Saradis_107 Start: 56290, Stop: 55910, Start Num: 3

Candidate Starts for Saradis_107:

(Start: 3 @56290 has 14 MA's), (6, 56227), (13, 56161), (15, 56110), (26, 55996), (27, 55966), (28, 55957), (30, 55921),

Gene: Shroomer_12 Start: 4005, Stop: 4391, Start Num: 4

Candidate Starts for Shroomer_12:

(Start: 3 @3999 has 14 MA's), (Start: 4 @4005 has 10 MA's), (8, 4080), (10, 4110), (16, 4197), (18, 4224), (21, 4266), (26, 4305), (27, 4335), (28, 4344), (30, 4380),

Gene: Solimine_107 Start: 57198, Stop: 56821, Start Num: 3

Candidate Starts for Solimine_107:

(Start: 3 @57198 has 14 MA's), (7, 57129), (9, 57120), (22, 56940), (23, 56931), (30, 56832),

Gene: StevieWelch_13 Start: 4567, Stop: 4959, Start Num: 3

Candidate Starts for StevieWelch_13:

(1, 4492), (2, 4549), (Start: 3 @4567 has 14 MA's), (Start: 4 @4573 has 10 MA's), (8, 4648), (10, 4678), (16, 4765), (18, 4792), (21, 4834), (26, 4873), (27, 4903), (28, 4912), (30, 4948),

Gene: Tandem_104 Start: 57148, Stop: 56768, Start Num: 3

Candidate Starts for Tandem_104:

(Start: 3 @57148 has 14 MA's), (5, 57088), (7, 57079), (18, 56926), (25, 56860), (27, 56824), (28, 56815), (30, 56779),

Gene: Uterion_110 Start: 56720, Stop: 56343, Start Num: 3

Candidate Starts for Uterion_110:

(Start: 3 @56720 has 14 MA's), (6, 56657), (9, 56642), (22, 56462), (23, 56453), (30, 56354),

Gene: Welcome_13 Start: 4652, Stop: 5038, Start Num: 4

Candidate Starts for Welcome_13:

(1, 4574), (Start: 4 @4652 has 10 MA's), (8, 4727), (10, 4757), (16, 4844), (18, 4871), (21, 4913), (26, 4952), (27, 4982), (28, 4991), (30, 5027),

Gene: Wolfstar_110 Start: 58799, Stop: 58431, Start Num: 3

Candidate Starts for Wolfstar_110:

(Start: 3 @58799 has 14 MA's), (5, 58748), (12, 58679), (14, 58670), (15, 58625), (18, 58583), (20, 58556), (24, 58538), (25, 58523), (26, 58517), (29, 58469), (30, 58442),

Gene: Yuma_13 Start: 4555, Stop: 4941, Start Num: 4

Candidate Starts for Yuma_13:

(1, 4474), (2, 4531), (Start: 3 @4549 has 14 MA's), (Start: 4 @4555 has 10 MA's), (8, 4630), (10, 4660), (16, 4747), (18, 4774), (21, 4816), (26, 4855), (27, 4885), (28, 4894), (30, 4930),