

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 296740 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296740 has 38 members, 7 are drafts.

Phages represented in each track:

- Track 1 : ThursdayNight_4
- Track 2 : MaGuCo_4
- Track 3 : IUFootball_4, Maureen_4, Liebe_4
- Track 4 : Snek_5
- Track 5 : Tweety19_5
- Track 6 : Origami_4
- Track 7 : ShakeltOph_4, JasmineDragon_4, MiniMommy_4
- Track 8 : FiveHead_4, LadyAstra_4, JohnThicc_4
- Track 9 : Emotion_4
- Track 10 : VroomVroom_4, AceofSpades_4
- Track 11 : Donkey_4, Kalimba_4, Sooty_4, Gambol_4, Cappuccino_4, Sabourin_4
- Track 12 : Giorgio_4
- Track 13 : Gumpizza_4, Beaupre_4
- Track 14 : Stuu_4
- Track 15 : RockScotty_4, Ashes_4, SpecialK_4, Halsey_4, Moss_4
- Track 16 : Mysterium_4
- Track 17 : Honk_4
- Track 18 : Cen1621_4
- Track 19 : SuMoo_4
- Track 20 : Floof_4
- Track 21 : Zeta1847_4

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

The start number called the most often in the published annotations is 2, it was called in 16 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ashes_4, Beaupre_4, Cappuccino_4, Donkey_4, Gambol_4, Giorgio_4, Gumpizza_4, Halsey_4, Kalimba_4, Moss_4, Mysterium_4, RockScotty_4, Sabourin_4, Sooty_4, SpecialK_4, Stuu_4,

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

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

- AceofSpades_4, Cen1621_4, Emotion_4, FiveHead_4, Floof_4, Honk_4, IUFootball_4, JasmineDragon_4, JohnThicc_4, LadyAstra_4, Liebe_4, MaGuCo_4, Maureen_4, MiniMommy_4, Origami_4, ShakeltOph_4, Snek_5, SuMoo_4, ThursdayNight_4, Tweety19_5, VroomVroom_4, Zeta1847_4,

Summary by start number:

Start 1:

- Found in 1 of 38 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Honk_4 (EH),

Start 2:

- Found in 16 of 38 (42.1%) of genes in pham
- Manual Annotations of this start: 16 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ashes_4 (AZ5), Beaupre_4 (AZ5), Cappuccino_4 (AZ5), Donkey_4 (AZ5), Gambol_4 (AZ5), Giorgio_4 (AZ5), Gumpizza_4 (AZ5), Halsey_4 (AZ5), Kalimba_4 (AZ5), Moss_4 (AZ5), Mysterium_4 (AZ5), RockScotty_4 (AZ5), Sabourin_4 (AZ5), Sooty_4 (AZ5), SpecialK_4 (AZ5), Stuu_4 (AZ5),

Start 3:

- Found in 4 of 38 (10.5%) of genes in pham
- Manual Annotations of this start: 3 of 31
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Cen1621_4 (EH), Floof_4 (EH), Zeta1847_4 (EH),

Start 4:

- Found in 1 of 38 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SuMoo_4 (EH),

Start 5:

- Found in 17 of 38 (44.7%) of genes in pham
- Manual Annotations of this start: 10 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AceofSpades_4 (AZ4), Emotion_4 (AZ4), FiveHead_4 (AZ4), IUFootball_4 (AZ2), JasmineDragon_4 (AZ4), JohnThicc_4 (AZ4), LadyAstra_4 (AZ4), Liebe_4 (AZ2), MaGuCo_4 (AZ2), Maureen_4 (AZ2), MiniMommy_4 (AZ4), Origami_4 (AZ4), ShakeltOph_4 (AZ4), Snek_5 (AZ3), ThursdayNight_4 (AZ), Tweety19_5 (AZ3), VroomVroom_4 (AZ4),

Summary by clusters:

There are 6 clusters represented in this pham: AZ3, EH, AZ2, AZ, AZ4, AZ5,

Info for manual annotations of cluster AZ2:

- Start number 5 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 5 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:

- Start number 5 was manually annotated 5 times for cluster AZ4.

Info for manual annotations of cluster AZ5:

- Start number 2 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster EH:

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

Gene Information:

Gene: AceofSpades_4 Start: 3676, Stop: 4473, Start Num: 5

Candidate Starts for AceofSpades_4:

(Start: 5 @3676 has 10 MA's), (17, 3832), (19, 3850), (21, 3883), (33, 4036), (38, 4102), (43, 4186), (49, 4318),

Gene: Ashes_4 Start: 3879, Stop: 4673, Start Num: 2

Candidate Starts for Ashes_4:

(Start: 2 @3879 has 16 MA's), (8, 3921), (13, 3987), (14, 4017), (15, 4029), (33, 4248), (35, 4269), (37, 4311), (41, 4365), (43, 4398), (45, 4419), (55, 4611),

Gene: Beaupre_4 Start: 3879, Stop: 4673, Start Num: 2

Candidate Starts for Beaupre_4:

(Start: 2 @3879 has 16 MA's), (8, 3921), (13, 3987), (14, 4017), (15, 4029), (23, 4110), (32, 4230), (33, 4248), (35, 4269), (37, 4311), (41, 4365), (43, 4398), (45, 4419), (55, 4611),

Gene: Cappuccino_4 Start: 3875, Stop: 4669, Start Num: 2

Candidate Starts for Cappuccino_4:

(Start: 2 @3875 has 16 MA's), (8, 3917), (13, 3983), (14, 4013), (15, 4025), (33, 4244), (35, 4265), (37, 4307), (43, 4394), (45, 4415), (46, 4433), (55, 4607),

Gene: Cen1621_4 Start: 3740, Stop: 4483, Start Num: 3

Candidate Starts for Cen1621_4:

(Start: 3 @3740 has 3 MA's), (8, 3779), (18, 3908), (23, 3968), (25, 3998), (35, 4136), (36, 4160), (41, 4229), (43, 4262), (47, 4337), (48, 4346),

Gene: Donkey_4 Start: 3875, Stop: 4669, Start Num: 2

Candidate Starts for Donkey_4:

(Start: 2 @3875 has 16 MA's), (8, 3917), (13, 3983), (14, 4013), (15, 4025), (33, 4244), (35, 4265), (37, 4307), (43, 4394), (45, 4415), (46, 4433), (55, 4607),

Gene: Emotion_4 Start: 3677, Stop: 4474, Start Num: 5

Candidate Starts for Emotion_4:

(Start: 5 @3677 has 10 MA's), (12, 3761), (21, 3884), (24, 3908), (26, 3935), (38, 4103), (43, 4187), (46, 4226), (49, 4319),

Gene: FiveHead_4 Start: 3658, Stop: 4455, Start Num: 5

Candidate Starts for FiveHead_4:

(Start: 5 @3658 has 10 MA's), (17, 3814), (19, 3832), (21, 3865), (33, 4018), (38, 4084), (39, 4090), (43, 4168), (49, 4300),

Gene: Floof_4 Start: 4029, Stop: 4892, Start Num: 3

Candidate Starts for Floof_4:

(Start: 3 @4029 has 3 MA's), (7, 4059), (16, 4191), (35, 4434), (43, 4563), (52, 4731), (56, 4815),

Gene: Gambol_4 Start: 3875, Stop: 4669, Start Num: 2

Candidate Starts for Gambol_4:

(Start: 2 @3875 has 16 MA's), (8, 3917), (13, 3983), (14, 4013), (15, 4025), (33, 4244), (35, 4265), (37, 4307), (43, 4394), (45, 4415), (46, 4433), (55, 4607),

Gene: Giorgio_4 Start: 3880, Stop: 4674, Start Num: 2

Candidate Starts for Giorgio_4:

(Start: 2 @3880 has 16 MA's), (8, 3922), (13, 3988), (14, 4018), (15, 4030), (32, 4231), (33, 4249), (35, 4270), (37, 4312), (41, 4366), (43, 4399), (45, 4420), (55, 4612),

Gene: Gumpizza_4 Start: 3879, Stop: 4673, Start Num: 2

Candidate Starts for Gumpizza_4:

(Start: 2 @3879 has 16 MA's), (8, 3921), (13, 3987), (14, 4017), (15, 4029), (23, 4110), (32, 4230), (33, 4248), (35, 4269), (37, 4311), (41, 4365), (43, 4398), (45, 4419), (55, 4611),

Gene: Halsey_4 Start: 3879, Stop: 4673, Start Num: 2

Candidate Starts for Halsey_4:

(Start: 2 @3879 has 16 MA's), (8, 3921), (13, 3987), (14, 4017), (15, 4029), (33, 4248), (35, 4269), (37, 4311), (41, 4365), (43, 4398), (45, 4419), (55, 4611),

Gene: Honk_4 Start: 3779, Stop: 4525, Start Num: 1

Candidate Starts for Honk_4:

(Start: 1 @3779 has 1 MA's), (Start: 3 @3788 has 3 MA's), (6, 3812), (8, 3827), (9, 3839), (10, 3842), (18, 3953), (23, 4013), (28, 4076), (33, 4160), (35, 4181), (41, 4274), (43, 4307), (46, 4346), (51, 4469), (53, 4478),

Gene: IUFootball_4 Start: 3813, Stop: 4607, Start Num: 5

Candidate Starts for IUFootball_4:

(Start: 5 @3813 has 10 MA's), (12, 3897), (21, 4020), (22, 4026), (31, 4143), (32, 4155), (33, 4173), (36, 4218), (38, 4239), (43, 4323), (48, 4407),

Gene: JasmineDragon_4 Start: 3667, Stop: 4464, Start Num: 5

Candidate Starts for JasmineDragon_4:

(Start: 5 @3667 has 10 MA's), (19, 3841), (21, 3874), (33, 4027), (38, 4093), (43, 4177), (49, 4309),

Gene: JohnThicc_4 Start: 3658, Stop: 4455, Start Num: 5

Candidate Starts for JohnThicc_4:

(Start: 5 @3658 has 10 MA's), (17, 3814), (19, 3832), (21, 3865), (33, 4018), (38, 4084), (39, 4090), (43, 4168), (49, 4300),

Gene: Kalimba_4 Start: 3875, Stop: 4669, Start Num: 2

Candidate Starts for Kalimba_4:

(Start: 2 @3875 has 16 MA's), (8, 3917), (13, 3983), (14, 4013), (15, 4025), (33, 4244), (35, 4265), (37, 4307), (43, 4394), (45, 4415), (46, 4433), (55, 4607),

Gene: LadyAstra_4 Start: 3658, Stop: 4455, Start Num: 5

Candidate Starts for LadyAstra_4:

(Start: 5 @3658 has 10 MA's), (17, 3814), (19, 3832), (21, 3865), (33, 4018), (38, 4084), (39, 4090), (43, 4168), (49, 4300),

Gene: Liebe_4 Start: 3813, Stop: 4607, Start Num: 5

Candidate Starts for Liebe_4:

(Start: 5 @3813 has 10 MA's), (12, 3897), (21, 4020), (22, 4026), (31, 4143), (32, 4155), (33, 4173), (36, 4218), (38, 4239), (43, 4323), (48, 4407),

Gene: MaGuCo_4 Start: 3672, Stop: 4466, Start Num: 5

Candidate Starts for MaGuCo_4:

(Start: 5 @3672 has 10 MA's), (12, 3756), (21, 3879), (31, 4002), (32, 4014), (33, 4032), (36, 4077), (38, 4098), (43, 4182), (44, 4185), (48, 4266), (50, 4323),

Gene: Maureen_4 Start: 3813, Stop: 4607, Start Num: 5

Candidate Starts for Maureen_4:

(Start: 5 @3813 has 10 MA's), (12, 3897), (21, 4020), (22, 4026), (31, 4143), (32, 4155), (33, 4173), (36, 4218), (38, 4239), (43, 4323), (48, 4407),

Gene: MiniMommy_4 Start: 3667, Stop: 4464, Start Num: 5

Candidate Starts for MiniMommy_4:

(Start: 5 @3667 has 10 MA's), (19, 3841), (21, 3874), (33, 4027), (38, 4093), (43, 4177), (49, 4309),

Gene: Moss_4 Start: 3879, Stop: 4673, Start Num: 2

Candidate Starts for Moss_4:

(Start: 2 @3879 has 16 MA's), (8, 3921), (13, 3987), (14, 4017), (15, 4029), (33, 4248), (35, 4269), (37, 4311), (41, 4365), (43, 4398), (45, 4419), (55, 4611),

Gene: Mysterium_4 Start: 3879, Stop: 4673, Start Num: 2

Candidate Starts for Mysterium_4:

(Start: 2 @3879 has 16 MA's), (8, 3921), (13, 3987), (14, 4017), (15, 4029), (23, 4110), (33, 4248), (35, 4269), (37, 4311), (41, 4365), (43, 4398), (45, 4419), (55, 4611),

Gene: Origami_4 Start: 3658, Stop: 4455, Start Num: 5

Candidate Starts for Origami_4:

(Start: 5 @3658 has 10 MA's), (12, 3742), (17, 3814), (19, 3832), (21, 3865), (33, 4018), (38, 4084), (39, 4090), (43, 4168), (49, 4300),

Gene: RockScotty_4 Start: 3879, Stop: 4673, Start Num: 2

Candidate Starts for RockScotty_4:

(Start: 2 @3879 has 16 MA's), (8, 3921), (13, 3987), (14, 4017), (15, 4029), (33, 4248), (35, 4269), (37, 4311), (41, 4365), (43, 4398), (45, 4419), (55, 4611),

Gene: Sabourin_4 Start: 3875, Stop: 4669, Start Num: 2

Candidate Starts for Sabourin_4:

(Start: 2 @3875 has 16 MA's), (8, 3917), (13, 3983), (14, 4013), (15, 4025), (33, 4244), (35, 4265), (37, 4307), (43, 4394), (45, 4415), (46, 4433), (55, 4607),

Gene: ShakeltOph_4 Start: 3667, Stop: 4464, Start Num: 5

Candidate Starts for ShakeltOph_4:

(Start: 5 @3667 has 10 MA's), (19, 3841), (21, 3874), (33, 4027), (38, 4093), (43, 4177), (49, 4309),

Gene: Snek_5 Start: 4503, Stop: 5270, Start Num: 5

Candidate Starts for Snek_5:

(Start: 5 @4503 has 10 MA's), (9, 4548), (11, 4554), (17, 4659), (21, 4710), (27, 4770), (29, 4803), (30, 4821), (32, 4845), (38, 4929), (40, 4962), (43, 5013), (44, 5016), (54, 5175),

Gene: Sooty_4 Start: 3875, Stop: 4669, Start Num: 2

Candidate Starts for Sooty_4:

(Start: 2 @3875 has 16 MA's), (8, 3917), (13, 3983), (14, 4013), (15, 4025), (33, 4244), (35, 4265), (37, 4307), (43, 4394), (45, 4415), (46, 4433), (55, 4607),

Gene: SpecialK_4 Start: 3879, Stop: 4673, Start Num: 2

Candidate Starts for SpecialK_4:

(Start: 2 @3879 has 16 MA's), (8, 3921), (13, 3987), (14, 4017), (15, 4029), (33, 4248), (35, 4269), (37, 4311), (41, 4365), (43, 4398), (45, 4419), (55, 4611),

Gene: Stuu_4 Start: 3879, Stop: 4673, Start Num: 2

Candidate Starts for Stuu_4:

(Start: 2 @3879 has 16 MA's), (8, 3921), (13, 3987), (14, 4017), (32, 4230), (33, 4248), (35, 4269), (37, 4311), (41, 4365), (43, 4398), (45, 4419), (55, 4611),

Gene: SuMoo_4 Start: 3785, Stop: 4639, Start Num: 4

Candidate Starts for SuMoo_4:

(Start: 4 @3785 has 1 MA's), (8, 3821), (35, 4187), (40, 4265), (42, 4295), (43, 4316), (48, 4400), (52, 4484), (56, 4568),

Gene: ThursdayNight_4 Start: 3861, Stop: 4655, Start Num: 5

Candidate Starts for ThursdayNight_4:

(Start: 5 @3861 has 10 MA's), (21, 4068), (25, 4113), (27, 4128), (31, 4191), (38, 4287), (43, 4371),

Gene: Tweety19_5 Start: 4503, Stop: 5270, Start Num: 5

Candidate Starts for Tweety19_5:

(Start: 5 @4503 has 10 MA's), (9, 4548), (17, 4659), (20, 4689), (21, 4710), (27, 4770), (29, 4803), (30, 4821), (32, 4845), (34, 4869), (38, 4929), (40, 4962), (43, 5013), (44, 5016), (54, 5175),

Gene: VroomVroom_4 Start: 3676, Stop: 4473, Start Num: 5

Candidate Starts for VroomVroom_4:

(Start: 5 @3676 has 10 MA's), (17, 3832), (19, 3850), (21, 3883), (33, 4036), (38, 4102), (43, 4186), (49, 4318),

Gene: Zeta1847_4 Start: 3665, Stop: 4408, Start Num: 3

Candidate Starts for Zeta1847_4:

(Start: 3 @3665 has 3 MA's), (8, 3704), (18, 3833), (22, 3884), (35, 4061), (36, 4085), (43, 4187), (46, 4226),