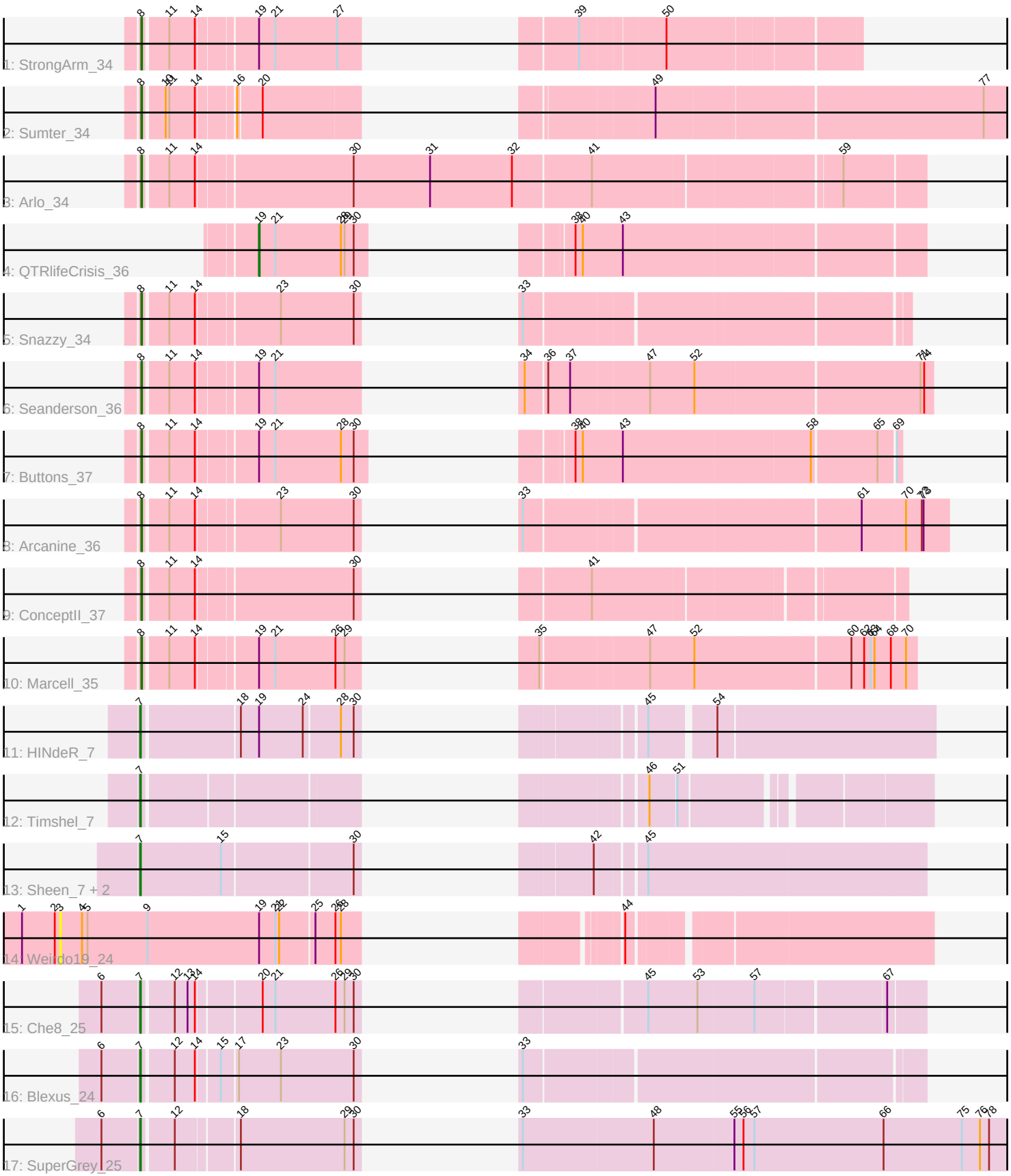
Pham 216595


1: StrongArm_34
2: Sumter_34
3: Arlo_34
4: QTRlifeCrisis_36
5: Snazzy_34
6: Seanderson_36
7: Buttons_37
8: Arcanine_36
9: ConceptII_37
10: Marcell_35
11: HINdeR_7
12: Timshel_7
13: Sheen_7 + 2
14: Weirdo19_24
15: Che8_25
16: Blexus_24
17: SuperGrey_25

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 216595 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216595 has 19 members, 3 are drafts.

Phages represented in each track:
• Track 1 : StrongArm_34
• Track 2 : Sumter_34
• Track 3 : Arlo_34
• Track 4 : QTRlifeCrisis_36
• Track 5 : Snazzy_34
• Track 6 : Seanderson_36
• Track 7 : Buttons_37
• Track 8 : Arcanine_36
• Track 9 : ConceptII_37
• Track 10 : Marcell_35
• Track 11 : HINdeR_7
• Track 12 : Timshel_7
• Track 13 : Sheen_7, FlyCatcher_8, Toro_7
• Track 14 : Weirdo19_24
• Track 15 : Che8_25
• Track 16 : Blexus_24
• Track 17 : SuperGrey_25

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

The start number called the most often in the published annotations is 8, it was called in 9 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arcanine_36, Arlo_34, Buttons_37, ConceptII_37, Marcell_35, Seanderson_36, Snazzy_34, StrongArm_34, Sumter_34,

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:
• Blexus_24, Che8_25, FlyCatcher_8, HINdeR_7, QTRlifeCrisis_36, Sheen_7, SuperGrey_25, Timshel_7, Toro_7, Weirdo19_24,

Summary by start number:

Start 3:
• Found in 1 of 19 (5.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Weirdo19_24 (AH),

Start 7:
• Found in 8 of 19 (42.1%) of genes in pham
• Manual Annotations of this start: 6 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Blexus_24 (F1), Che8_25 (F1), FlyCatcher_8 (A7), HINdeR_7 (A7), Sheen_7 (A7), SuperGrey_25 (F1), Timshel_7 (A7), Toro_7 (A7),

Start 8:
• Found in 9 of 19 (47.4%) of genes in pham
• Manual Annotations of this start: 9 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arcanine_36 (A1), Arlo_34 (A1), Buttons_37 (A1), ConceptII_37 (A1), Marcell_35 (A1), Seanderson_36 (A1), Snazzy_34 (A1), StrongArm_34 (A1), Sumter_34 (A1),

Start 19:
• Found in 7 of 19 (36.8%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 14.3% of time when present
• Phage (with cluster) where this start called: QTRlifeCrisis_36 (A1),

Summary by clusters:

There are 4 clusters represented in this pham: A1, F1, A7, AH,

Info for manual annotations of cluster A1:
•Start number 8 was manually annotated 9 times for cluster A1.
•Start number 19 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster A7:
•Start number 7 was manually annotated 3 times for cluster A7.

Info for manual annotations of cluster F1:
•Start number 7 was manually annotated 3 times for cluster F1.

Gene Information:

Gene: Arcanine_36 Start: 27784, Stop: 28773, Start Num: 8
Candidate Starts for Arcanine_36:
(Start: 8 @27784 has 9 MA's), (11, 27820), (14, 27862), (23, 27985), (30, 28102), (33, 28120), (61, 28639), (70, 28705), (72, 28729), (73, 28732),

Gene: Arlo_34 Start: 27660, Stop: 28868, Start Num: 8
Candidate Starts for Arlo_34:
(Start: 8 @27660 has 9 MA's), (11, 27696), (14, 27738), (30, 27981), (31, 28107), (32, 28242), (41, 28368), (59, 28743),

Gene: Blexus_24 Start: 24450, Stop: 25397, Start Num: 7
Candidate Starts for Blexus_24:
(6, 24390), (Start: 7 @24450 has 6 MA's), (12, 24498), (14, 24531), (15, 24564), (17, 24588), (23, 24657), (30, 24774), (33, 24792),

Gene: Buttons_37 Start: 29009, Stop: 29929, Start Num: 8
Candidate Starts for Buttons_37:
(Start: 8 @29009 has 9 MA's), (11, 29045), (14, 29087), (Start: 19 @29174 has 1 MA's), (21, 29201), (28, 29309), (30, 29330), (38, 29429), (40, 29441), (43, 29504), (58, 29798), (65, 29897), (69, 29921),

Gene: Che8_25 Start: 24293, Stop: 25249, Start Num: 7
Candidate Starts for Che8_25:
(6, 24233), (Start: 7 @24293 has 6 MA's), (12, 24341), (13, 24362), (14, 24374), (20, 24470), (21, 24491), (26, 24590), (29, 24605), (30, 24620), (45, 24827), (53, 24905), (57, 24995), (67, 25193),

Gene: ConceptII_37 Start: 28990, Stop: 29907, Start Num: 8
Candidate Starts for ConceptII_37:
(Start: 8 @28990 has 9 MA's), (11, 29026), (14, 29068), (30, 29311), (41, 29437),

Gene: FlyCatcher_8 Start: 4427, Stop: 5395, Start Num: 7
Candidate Starts for FlyCatcher_8:
(Start: 7 @4427 has 6 MA's), (15, 4550), (30, 4754), (42, 4880), (45, 4949),

Gene: HINdeR_7 Start: 4364, Stop: 5329, Start Num: 7
Candidate Starts for HINdeR_7:
(Start: 7 @4364 has 6 MA's), (18, 4511), (Start: 19 @4541 has 1 MA's), (24, 4613), (28, 4670), (30, 4691), (45, 4883), (54, 4982),

Gene: Marcell_35 Start: 28259, Stop: 29206, Start Num: 8
Candidate Starts for Marcell_35:
(Start: 8 @28259 has 9 MA's), (11, 28295), (14, 28337), (Start: 19 @28424 has 1 MA's), (21, 28451), (26, 28550), (29, 28565), (35, 28625), (47, 28796), (52, 28865), (60, 29105), (62, 29126), (63, 29135), (64, 29138), (68, 29165), (70, 29189),

Gene: QTRlifeCrisis_36 Start: 28819, Stop: 29613, Start Num: 19
Candidate Starts for QTRlifeCrisis_36:
(Start: 19 @28819 has 1 MA's), (21, 28846), (28, 28954), (29, 28960), (30, 28975), (38, 29074), (40, 29086), (43, 29149),

Gene: Seanderson_36 Start: 28535, Stop: 29503, Start Num: 8
Candidate Starts for Seanderson_36:
(Start: 8 @28535 has 9 MA's), (11, 28571), (14, 28613), (Start: 19 @28700 has 1 MA's), (21, 28727), (34, 28877), (36, 28910), (37, 28946), (47, 29072), (52, 29141), (71, 29483), (74, 29489),

Gene: Sheen_7 Start: 4509, Stop: 5477, Start Num: 7
Candidate Starts for Sheen_7:
(Start: 7 @4509 has 6 MA's), (15, 4632), (30, 4836), (42, 4962), (45, 5031),

Gene: Snazzy_34 Start: 27934, Stop: 28851, Start Num: 8
Candidate Starts for Snazzy_34:
(Start: 8 @27934 has 9 MA's), (11, 27970), (14, 28012), (23, 28135), (30, 28252), (33, 28270),

Gene: StrongArm_34 Start: 29035, Stop: 29871, Start Num: 8
Candidate Starts for StrongArm_34:
(Start: 8 @29035 has 9 MA's), (11, 29071), (14, 29113), (Start: 19 @29200 has 1 MA's), (21, 29227), (27, 29329), (39, 29458), (50, 29587),

Gene: Sumter_34 Start: 27596, Stop: 28885, Start Num: 8
Candidate Starts for Sumter_34:
(Start: 8 @27596 has 9 MA's), (10, 27626), (11, 27632), (14, 27674), (16, 27725), (20, 27761), (49, 28124), (77, 28622),

Gene: SuperGrey_25 Start: 24942, Stop: 26156, Start Num: 7
Candidate Starts for SuperGrey_25:
(6, 24882), (Start: 7 @24942 has 6 MA's), (12, 24990), (18, 25083), (29, 25254), (30, 25269), (33, 25287), (48, 25500), (55, 25626), (56, 25641), (57, 25659), (66, 25872), (75, 26001), (76, 26031), (78, 26046),

Gene: Timshel_7 Start: 4377, Stop: 5294, Start Num: 7
Candidate Starts for Timshel_7:
(Start: 7 @4377 has 6 MA's), (46, 4893), (51, 4932),

Gene: Toro_7 Start: 4427, Stop: 5395, Start Num: 7
Candidate Starts for Toro_7:
(Start: 7 @4427 has 6 MA's), (15, 4550), (30, 4754), (42, 4880), (45, 4949),

Gene: Weirdo19_24 Start: 23568, Stop: 24653, Start Num: 3
Candidate Starts for Weirdo19_24:
(1, 23505), (2, 23559), (3, 23568), (4, 23604), (5, 23613), (9, 23712), (Start: 19 @23892 has 1 MA's), (21, 23919), (22, 23925), (25, 23976), (26, 24009), (28, 24018), (44, 24195),