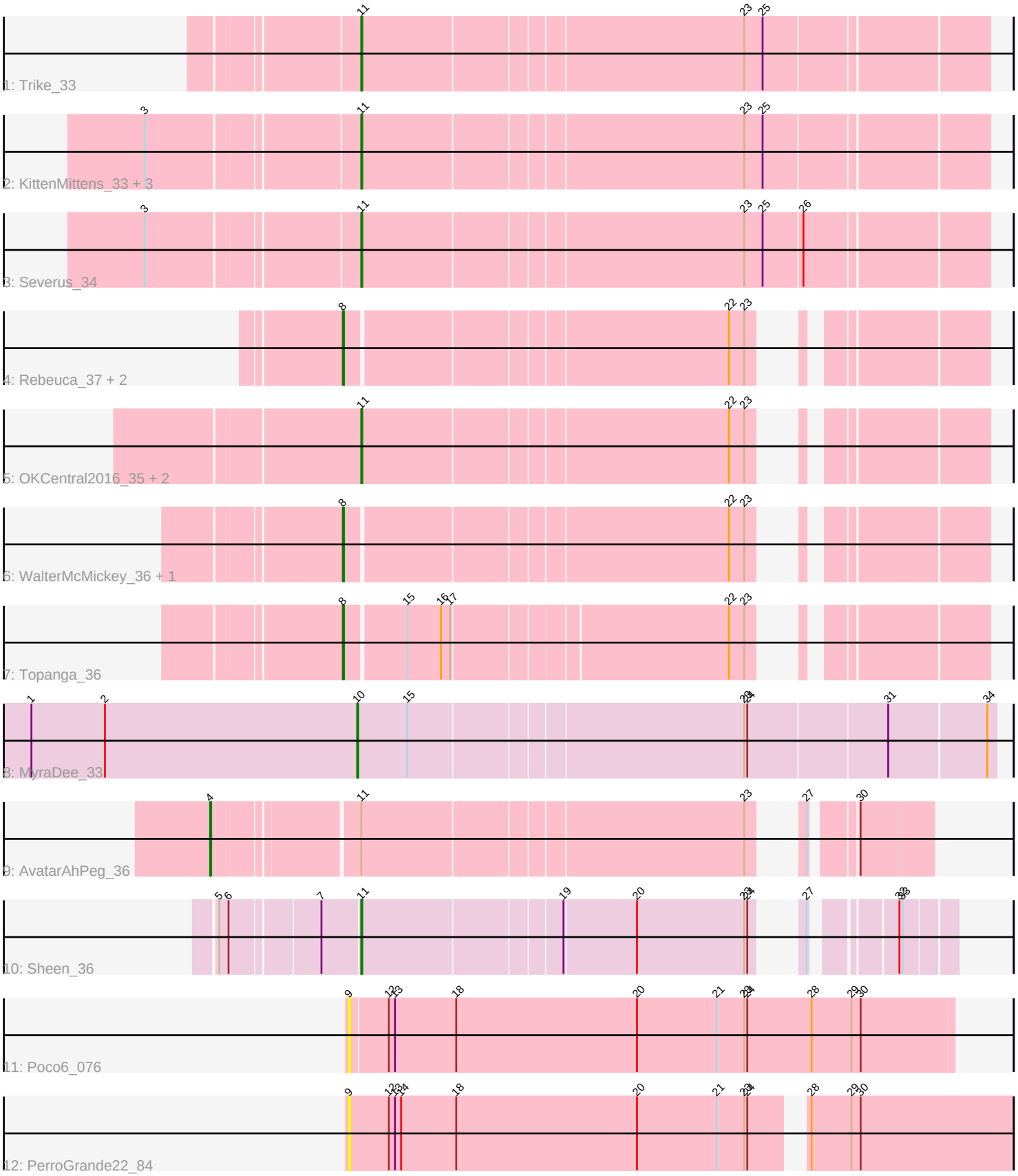
Pham 296962


1: Trike_33
2: KittenMittens_33 + 3
3: Severus_34
4: Rebeuca_37 + 2
5: OKCentral2016_35 + 2
6: WalterMcMickey_36 + 1
7: Topanga_36
8: MyraDee_33
9: AvatarAhPeg_36
10: Sheen_36
11: Poco6_076
12: PerroGrande22_84

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 296962 Report

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

Pham number 296962 has 20 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Trike_33
• Track 2 : KittenMittens_33, Drake94_34, PeaceMeal1_34, Poompha_34
• Track 3 : Severus_34
• Track 4 : Rebeuca_37, Edison31_36, Kristoff_37
• Track 5 : OKCentral2016_35, Chupacabra_35, Goose_36
• Track 6 : WalterMcMickey_36, Twister_36
• Track 7 : Topanga_36
• Track 8 : MyraDee_33
• Track 9 : AvatarAhPeg_36
• Track 10 : Sheen_36
• Track 11 : Poco6_076
• Track 12 : PerroGrande22_84

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

The start number called the most often in the published annotations is 11, it was called in 10 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Chupacabra_35, Drake94_34, Goose_36, KittenMittens_33, OKCentral2016_35, PeaceMeal1_34, Poompha_34, Severus_34, Sheen_36, Trike_33,

Genes that have the "Most Annotated" start but do not call it:
• AvatarAhPeg_36,

Genes that do not have the "Most Annotated" start:
• Edison31_36, Kristoff_37, MyraDee_33, PerroGrande22_84, Poco6_076, Rebeuca_37, Topanga_36, Twister_36, WalterMcMickey_36,

Summary by start number:

Start 4:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 18

• Called 100.0% of time when present
• Phage (with cluster) where this start called: AvatarAhPeg_36 (A4),

Start 8:
• Found in 6 of 20 (30.0%) of genes in pham
• Manual Annotations of this start: 6 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Edison31_36 (A10), Kristoff_37 (A10), Rebeuca_37 (A10), Topanga_36 (A10), Twister_36 (A10), WalterMcMickey_36 (A10),

Start 9:
• Found in 2 of 20 (10.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PerroGrande22_84 (CC), Poco6_076 (CC),

Start 10:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MyraDee_33 (A18),

Start 11:
• Found in 11 of 20 (55.0%) of genes in pham
• Manual Annotations of this start: 10 of 18
• Called 90.9% of time when present
• Phage (with cluster) where this start called: Chupacabra_35 (A10), Drake94_34 (A10), Goose_36 (A10), KittenMittens_33 (A10), OKCentral2016_35 (A10), PeaceMeal1_34 (A10), Poompha_34 (A10), Severus_34 (A10), Sheen_36 (A7), Trike_33 (A10),

Summary by clusters:

There are 5 clusters represented in this pham: CC, A18, A10, A7, A4,

Info for manual annotations of cluster A10:
•Start number 8 was manually annotated 6 times for cluster A10.
•Start number 11 was manually annotated 9 times for cluster A10.

Info for manual annotations of cluster A18:
•Start number 10 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A4:
•Start number 4 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster A7:
•Start number 11 was manually annotated 1 time for cluster A7.

Gene Information:

Gene: AvatarAhPeg_36 Start: 28482, Stop: 27874, Start Num: 4
Candidate Starts for AvatarAhPeg_36:
(Start: 4 @28482 has 1 MA's), (Start: 11 @28353 has 10 MA's), (23, 27993), (27, 27975), (30, 27942),

Gene: Chupacabra_35 Start: 27785, Stop: 27258, Start Num: 11
Candidate Starts for Chupacabra_35:
(Start: 11 @27785 has 10 MA's), (22, 27440), (23, 27425),

Gene: Drake94_34 Start: 26656, Stop: 26072, Start Num: 11
Candidate Starts for Drake94_34:
(3, 26851), (Start: 11 @26656 has 10 MA's), (23, 26296), (25, 26278),

Gene: Edison31_36 Start: 28017, Stop: 27478, Start Num: 8
Candidate Starts for Edison31_36:
(Start: 8 @28017 has 6 MA's), (22, 27660), (23, 27645),

Gene: Goose_36 Start: 27589, Stop: 27062, Start Num: 11
Candidate Starts for Goose_36:
(Start: 11 @27589 has 10 MA's), (22, 27244), (23, 27229),

Gene: KittenMittens_33 Start: 26664, Stop: 26080, Start Num: 11
Candidate Starts for KittenMittens_33:
(3, 26859), (Start: 11 @26664 has 10 MA's), (23, 26304), (25, 26286),

Gene: Kristoff_37 Start: 28181, Stop: 27642, Start Num: 8
Candidate Starts for Kristoff_37:
(Start: 8 @28181 has 6 MA's), (22, 27824), (23, 27809),

Gene: MyraDee_33 Start: 25725, Stop: 25126, Start Num: 10
Candidate Starts for MyraDee_33:
(1, 26043), (2, 25971), (Start: 10 @25725 has 1 MA's), (15, 25677), (23, 25362), (24, 25359), (31, 25227), (34, 25134),

Gene: OKCentral2016_35 Start: 27492, Stop: 26965, Start Num: 11
Candidate Starts for OKCentral2016_35:
(Start: 11 @27492 has 10 MA's), (22, 27147), (23, 27132),

Gene: PeaceMeal1_34 Start: 26665, Stop: 26081, Start Num: 11
Candidate Starts for PeaceMeal1_34:
(3, 26860), (Start: 11 @26665 has 10 MA's), (23, 26305), (25, 26287),

Gene: PerroGrande22_84 Start: 59419, Stop: 60045, Start Num: 9
Candidate Starts for PerroGrande22_84:
(9, 59419), (12, 59458), (13, 59464), (14, 59470), (18, 59524), (20, 59701), (21, 59779), (23, 59806), (24, 59809), (28, 59848), (29, 59887), (30, 59896),

Gene: Poco6_076 Start: 59210, Stop: 59797, Start Num: 9
Candidate Starts for Poco6_076:
(9, 59210), (12, 59246), (13, 59252), (18, 59312), (20, 59489), (21, 59567), (23, 59594), (24, 59597), (28, 59660), (29, 59699), (30, 59708),

Gene: Poompha_34 Start: 26663, Stop: 26079, Start Num: 11
Candidate Starts for Poompha_34:

(3, 26858), (Start: 11 @26663 has 10 MA's), (23, 26303), (25, 26285),

Gene: Rebeuca_37 Start: 28182, Stop: 27643, Start Num: 8
Candidate Starts for Rebeuca_37:
(Start: 8 @28182 has 6 MA's), (22, 27825), (23, 27810),

Gene: Severus_34 Start: 26663, Stop: 26079, Start Num: 11
Candidate Starts for Severus_34:
(3, 26858), (Start: 11 @26663 has 10 MA's), (23, 26303), (25, 26285), (26, 26249),

Gene: Sheen_36 Start: 29802, Stop: 29311, Start Num: 11
Candidate Starts for Sheen_36:
(5, 29925), (6, 29916), (7, 29838), (Start: 11 @29802 has 10 MA's), (19, 29616), (20, 29547), (23, 29442), (24, 29439), (27, 29424), (32, 29361), (33, 29358),

Gene: Topanga_36 Start: 28017, Stop: 27481, Start Num: 8
Candidate Starts for Topanga_36:
(Start: 8 @28017 has 6 MA's), (15, 27960), (16, 27927), (17, 27918), (22, 27663), (23, 27648),

Gene: Trike_33 Start: 26496, Stop: 25912, Start Num: 11
Candidate Starts for Trike_33:
(Start: 11 @26496 has 10 MA's), (23, 26136), (25, 26118),

Gene: Twister_36 Start: 27928, Stop: 27389, Start Num: 8
Candidate Starts for Twister_36:
(Start: 8 @27928 has 6 MA's), (22, 27571), (23, 27556),

Gene: WalterMcMickey_36 Start: 27928, Stop: 27389, Start Num: 8
Candidate Starts for WalterMcMickey_36:
(Start: 8 @27928 has 6 MA's), (22, 27571), (23, 27556),