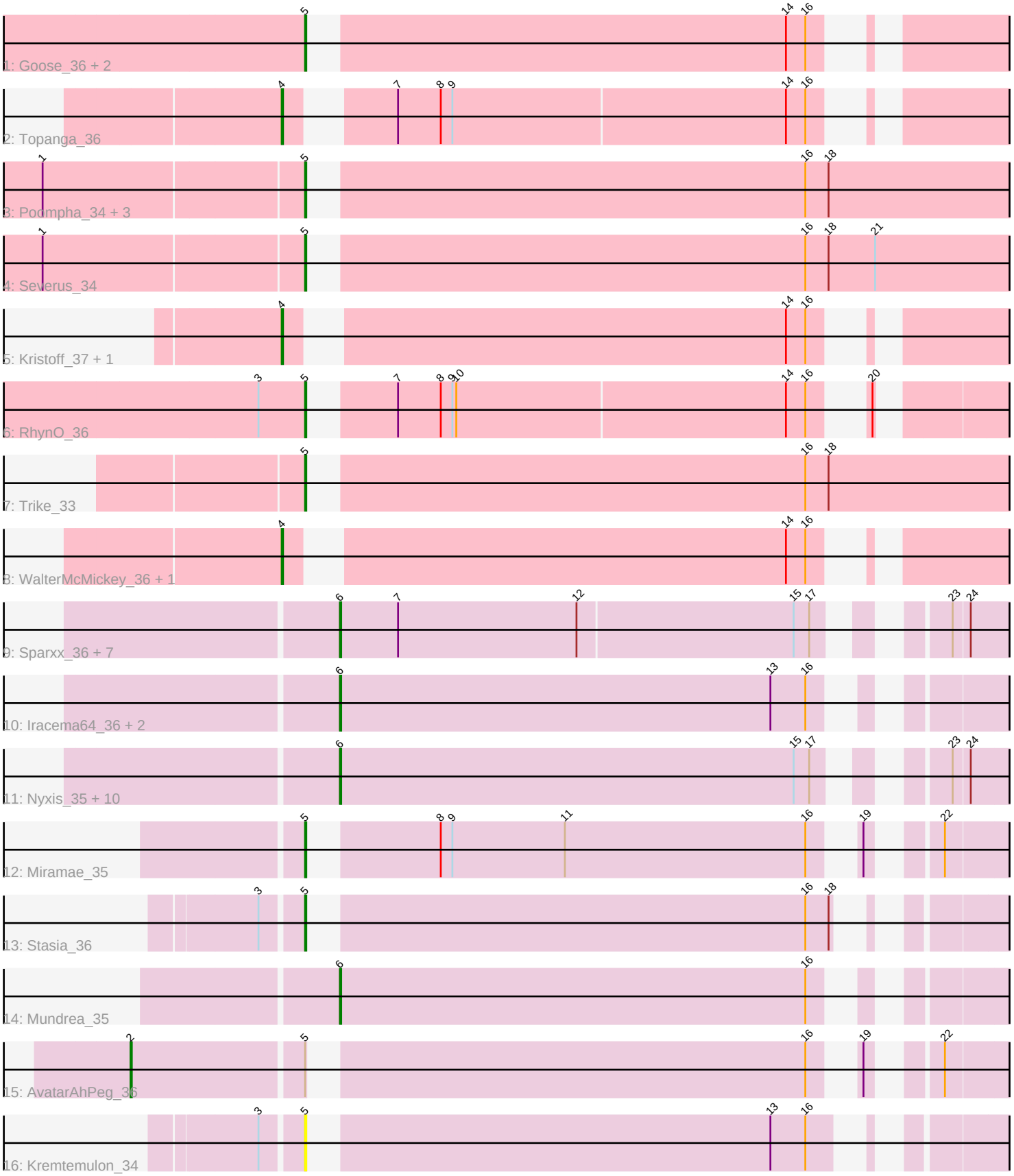
Pham 163723


1: Goose_36 + 2
2: Topanga_36
3: Poompha_34 + 3
4: Severus_34
5: Kristoff_37 + 1
6: RhynO_36
7: Trike_33
8: WalterMcMickey_36 + 1
9: Sparxx_36 + 7
10: Iracema64_36 + 2
11: Nyxis_35 + 10
12: Miramae_35
13: Stasia_36
14: Mundrea_35
15: AvatarAhPeg_36
16: Kremtemulon_34

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 163723 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163723 has 42 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Goose_36, Chupacabra_35, OKCentral2016_35
• Track 2 : Topanga_36
• Track 3 : Poompha_34, Drake94_34, PeaceMeal1_34, KittenMittens_33
• Track 4 : Severus_34
• Track 5 : Kristoff_37, Rebeuca_37
• Track 6 : RhynO_36
• Track 7 : Trike_33
• Track 8 : WalterMcMickey_36, Twister_36
• Track 9 : Sparxx_36, Abdiel_35, Polymorphads_36, Maxo_36, BellusTerra_36, Ohfah_36, Morrow_36, Eagle_35
• Track 10 : Iracema64_36, Arturo_34, Kratark_35
• Track 11 : Nyxis_35, Pumbaa_35, LittleGuy_35, Commander_36, TroyPia_36, Ulysses_34, Phontbonne_35, Medusa_36, TinaFeyge_36, Melvin_37, Phelipe_36
• Track 12 : Miramae_35
• Track 13 : Stasia_36
• Track 14 : Mundrea_35
• Track 15 : AvatarAhPeg_36
• Track 16 : Kremtemulon_34

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

The start number called the most often in the published annotations is 6, it was called in 23 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abdiel_35, Arturo_34, BellusTerra_36, Commander_36, Eagle_35, Iracema64_36, Kratark_35, LittleGuy_35, Maxo_36, Medusa_36, Melvin_37, Morrow_36, Mundrea_35, Nyxis_35, Ohfah_36, Phelipe_36, Phontbonne_35, Polymorphads_36, Pumbaa_35, Sparxx_36, TinaFeyge_36, TroyPia_36, Ulysses_34,

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

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

• AvatarAhPeg_36, Chupacabra_35, Drake94_34, Goose_36, KittenMittens_33, Kremtemulon_34, Kristoff_37, Miramae_35, OKCentral2016_35, PeaceMeal1_34, Poompha_34, Rebeuca_37, RhynO_36, Severus_34, Stasia_36, Topanga_36, Trike_33, Twister_36, WalterMcMickey_36,

Summary by start number:

Start 2:
• Found in 1 of 42 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AvatarAhPeg_36 (A4),

Start 4:
• Found in 5 of 42 (11.9%) of genes in pham
• Manual Annotations of this start: 5 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kristoff_37 (A10), Rebeuca_37 (A10), Topanga_36 (A10), Twister_36 (A10), WalterMcMickey_36 (A10),

Start 5:
• Found in 14 of 42 (33.3%) of genes in pham
• Manual Annotations of this start: 12 of 41
• Called 92.9% of time when present
• Phage (with cluster) where this start called: Chupacabra_35 (A10), Drake94_34 (A10), Goose_36 (A10), KittenMittens_33 (A10), Kremtemulon_34 (A4), Miramae_35 (A4), OKCentral2016_35 (A10), PeaceMeal1_34 (A10), Poompha_34 (A10), RhynO_36 (A10), Severus_34 (A10), Stasia_36 (A4), Trike_33 (A10),

Start 6:
• Found in 23 of 42 (54.8%) of genes in pham
• Manual Annotations of this start: 23 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abdiel_35 (A4), Arturo_34 (A4), BellusTerra_36 (A4), Commander_36 (A4), Eagle_35 (A4), Iracema64_36 (A4), Kratark_35 (A4), LittleGuy_35 (A4), Maxo_36 (A4), Medusa_36 (A4), Melvin_37 (A4), Morrow_36 (A4), Mundrea_35 (A4), Nyxis_35 (A4), Ohfah_36 (A4), Phelipe_36 (A4), Phontbonne_35 (A4), Polymorphads_36 (A4), Pumbaa_35 (A4), Sparxx_36 (A4), TinaFeyge_36 (A4), TroyPia_36 (A4), Ulysses_34 (A4),

Summary by clusters:

There are 2 clusters represented in this pham: A4, A10,

Info for manual annotations of cluster A10:
•Start number 4 was manually annotated 5 times for cluster A10.
•Start number 5 was manually annotated 10 times for cluster A10.

Info for manual annotations of cluster A4:
•Start number 2 was manually annotated 1 time for cluster A4.
•Start number 5 was manually annotated 2 times for cluster A4.
•Start number 6 was manually annotated 23 times for cluster A4.

Gene Information:

Gene: Abdiel_35 Start: 27799, Stop: 27323, Start Num: 6
Candidate Starts for Abdiel_35:
(Start: 6 @27799 has 23 MA's), (7, 27754), (12, 27616), (15, 27451), (17, 27439), (23, 27379), (24, 27367),

Gene: Arturo_34 Start: 27863, Stop: 27384, Start Num: 6
Candidate Starts for Arturo_34:
(Start: 6 @27863 has 23 MA's), (13, 27530), (16, 27503),

Gene: AvatarAhPeg_36 Start: 28482, Stop: 27874, Start Num: 2
Candidate Starts for AvatarAhPeg_36:
(Start: 2 @28482 has 1 MA's), (Start: 5 @28353 has 12 MA's), (16, 27993), (19, 27975), (22, 27942),

Gene: BellusTerra_36 Start: 27799, Stop: 27323, Start Num: 6
Candidate Starts for BellusTerra_36:
(Start: 6 @27799 has 23 MA's), (7, 27754), (12, 27616), (15, 27451), (17, 27439), (23, 27379), (24, 27367),

Gene: Chupacabra_35 Start: 27785, Stop: 27258, Start Num: 5
Candidate Starts for Chupacabra_35:
(Start: 5 @27785 has 12 MA's), (14, 27440), (16, 27425),

Gene: Commander_36 Start: 27803, Stop: 27324, Start Num: 6
Candidate Starts for Commander_36:
(Start: 6 @27803 has 23 MA's), (15, 27452), (17, 27440), (23, 27380), (24, 27368),

Gene: Drake94_34 Start: 26656, Stop: 26072, Start Num: 5
Candidate Starts for Drake94_34:
(1, 26851), (Start: 5 @26656 has 12 MA's), (16, 26296), (18, 26278),

Gene: Eagle_35 Start: 27823, Stop: 27347, Start Num: 6
Candidate Starts for Eagle_35:
(Start: 6 @27823 has 23 MA's), (7, 27778), (12, 27640), (15, 27475), (17, 27463), (23, 27403), (24, 27391),

Gene: Goose_36 Start: 27589, Stop: 27062, Start Num: 5
Candidate Starts for Goose_36:
(Start: 5 @27589 has 12 MA's), (14, 27244), (16, 27229),

Gene: Iracema64_36 Start: 28062, Stop: 27583, Start Num: 6
Candidate Starts for Iracema64_36:
(Start: 6 @28062 has 23 MA's), (13, 27729), (16, 27702),

Gene: KittenMittens_33 Start: 26664, Stop: 26080, Start Num: 5
Candidate Starts for KittenMittens_33:
(1, 26859), (Start: 5 @26664 has 12 MA's), (16, 26304), (18, 26286),

Gene: Kratark_35 Start: 27746, Stop: 27267, Start Num: 6
Candidate Starts for Kratark_35:

(Start: 6 @27746 has 23 MA's), (13, 27413), (16, 27386),

Gene: Kremtemulon_34 Start: 27796, Stop: 27317, Start Num: 5
Candidate Starts for Kremtemulon_34:
(3, 27826), (Start: 5 @27796 has 12 MA's), (13, 27463), (16, 27436),

Gene: Kristoff_37 Start: 28181, Stop: 27642, Start Num: 4
Candidate Starts for Kristoff_37:
(Start: 4 @28181 has 5 MA's), (14, 27824), (16, 27809),

Gene: LittleGuy_35 Start: 27703, Stop: 27230, Start Num: 6
Candidate Starts for LittleGuy_35:
(Start: 6 @27703 has 23 MA's), (15, 27352), (17, 27340), (23, 27280), (24, 27268),

Gene: Maxo_36 Start: 27800, Stop: 27324, Start Num: 6
Candidate Starts for Maxo_36:
(Start: 6 @27800 has 23 MA's), (7, 27755), (12, 27617), (15, 27452), (17, 27440), (23, 27380), (24, 27368),

Gene: Medusa_36 Start: 27803, Stop: 27324, Start Num: 6
Candidate Starts for Medusa_36:
(Start: 6 @27803 has 23 MA's), (15, 27452), (17, 27440), (23, 27380), (24, 27368),

Gene: Melvin_37 Start: 27802, Stop: 27323, Start Num: 6
Candidate Starts for Melvin_37:
(Start: 6 @27802 has 23 MA's), (15, 27451), (17, 27439), (23, 27379), (24, 27367),

Gene: Miramae_35 Start: 28016, Stop: 27537, Start Num: 5
Candidate Starts for Miramae_35:
(Start: 5 @28016 has 12 MA's), (8, 27938), (9, 27929), (11, 27842), (16, 27656), (19, 27638), (22, 27605),

Gene: Morrow_36 Start: 27804, Stop: 27328, Start Num: 6
Candidate Starts for Morrow_36:
(Start: 6 @27804 has 23 MA's), (7, 27759), (12, 27621), (15, 27456), (17, 27444), (23, 27384), (24, 27372),

Gene: Mundrea_35 Start: 27726, Stop: 27247, Start Num: 6
Candidate Starts for Mundrea_35:
(Start: 6 @27726 has 23 MA's), (16, 27366),

Gene: Nyxis_35 Start: 27697, Stop: 27224, Start Num: 6
Candidate Starts for Nyxis_35:
(Start: 6 @27697 has 23 MA's), (15, 27346), (17, 27334), (23, 27274), (24, 27262),

Gene: OKCentral2016_35 Start: 27492, Stop: 26965, Start Num: 5
Candidate Starts for OKCentral2016_35:
(Start: 5 @27492 has 12 MA's), (14, 27147), (16, 27132),

Gene: Ohfah_36 Start: 27798, Stop: 27322, Start Num: 6
Candidate Starts for Ohfah_36:
(Start: 6 @27798 has 23 MA's), (7, 27753), (12, 27615), (15, 27450), (17, 27438), (23, 27378), (24, 27366),

Gene: PeaceMeal1_34 Start: 26665, Stop: 26081, Start Num: 5
Candidate Starts for PeaceMeal1_34:
(1, 26860), (Start: 5 @26665 has 12 MA's), (16, 26305), (18, 26287),

Gene: Phelipe_36 Start: 27804, Stop: 27325, Start Num: 6
Candidate Starts for Phelipe_36:
(Start: 6 @27804 has 23 MA's), (15, 27453), (17, 27441), (23, 27381), (24, 27369),

Gene: Phontbonne_35 Start: 27698, Stop: 27225, Start Num: 6
Candidate Starts for Phontbonne_35:
(Start: 6 @27698 has 23 MA's), (15, 27347), (17, 27335), (23, 27275), (24, 27263),

Gene: Polymorphads_36 Start: 27797, Stop: 27321, Start Num: 6
Candidate Starts for Polymorphads_36:
(Start: 6 @27797 has 23 MA's), (7, 27752), (12, 27614), (15, 27449), (17, 27437), (23, 27377), (24, 27365),

Gene: Poompha_34 Start: 26663, Stop: 26079, Start Num: 5
Candidate Starts for Poompha_34:
(1, 26858), (Start: 5 @26663 has 12 MA's), (16, 26303), (18, 26285),

Gene: Pumbaa_35 Start: 27749, Stop: 27276, Start Num: 6
Candidate Starts for Pumbaa_35:
(Start: 6 @27749 has 23 MA's), (15, 27398), (17, 27386), (23, 27326), (24, 27314),

Gene: Rebeuca_37 Start: 28182, Stop: 27643, Start Num: 4
Candidate Starts for Rebeuca_37:
(Start: 4 @28182 has 5 MA's), (14, 27825), (16, 27810),

Gene: RhynO_36 Start: 27673, Stop: 27197, Start Num: 5
Candidate Starts for RhynO_36:
(3, 27709), (Start: 5 @27673 has 12 MA's), (7, 27628), (8, 27595), (9, 27586), (10, 27583), (14, 27331), (16, 27316), (20, 27298),

Gene: Severus_34 Start: 26663, Stop: 26079, Start Num: 5
Candidate Starts for Severus_34:
(1, 26858), (Start: 5 @26663 has 12 MA's), (16, 26303), (18, 26285), (21, 26249),

Gene: Sparxx_36 Start: 27799, Stop: 27323, Start Num: 6
Candidate Starts for Sparxx_36:
(Start: 6 @27799 has 23 MA's), (7, 27754), (12, 27616), (15, 27451), (17, 27439), (23, 27379), (24, 27367),

Gene: Stasia_36 Start: 28128, Stop: 27649, Start Num: 5
Candidate Starts for Stasia_36:
(3, 28158), (Start: 5 @28128 has 12 MA's), (16, 27768), (18, 27750),

Gene: TinaFeyge_36 Start: 27799, Stop: 27320, Start Num: 6
Candidate Starts for TinaFeyge_36:
(Start: 6 @27799 has 23 MA's), (15, 27448), (17, 27436), (23, 27376), (24, 27364),

Gene: Topanga_36 Start: 28017, Stop: 27481, Start Num: 4

Candidate Starts for Topanga_36:
(Start: 4 @28017 has 5 MA's), (7, 27960), (8, 27927), (9, 27918), (14, 27663), (16, 27648),

Gene: Trike_33 Start: 26496, Stop: 25912, Start Num: 5
Candidate Starts for Trike_33:
(Start: 5 @26496 has 12 MA's), (16, 26136), (18, 26118),

Gene: TroyPia_36 Start: 27802, Stop: 27323, Start Num: 6
Candidate Starts for TroyPia_36:
(Start: 6 @27802 has 23 MA's), (15, 27451), (17, 27439), (23, 27379), (24, 27367),

Gene: Twister_36 Start: 27928, Stop: 27389, Start Num: 4
Candidate Starts for Twister_36:
(Start: 4 @27928 has 5 MA's), (14, 27571), (16, 27556),

Gene: Ulysses_34 Start: 27484, Stop: 27011, Start Num: 6
Candidate Starts for Ulysses_34:
(Start: 6 @27484 has 23 MA's), (15, 27133), (17, 27121), (23, 27061), (24, 27049),

Gene: WalterMcMickey_36 Start: 27928, Stop: 27389, Start Num: 4
Candidate Starts for WalterMcMickey_36:
(Start: 4 @27928 has 5 MA's), (14, 27571), (16, 27556),