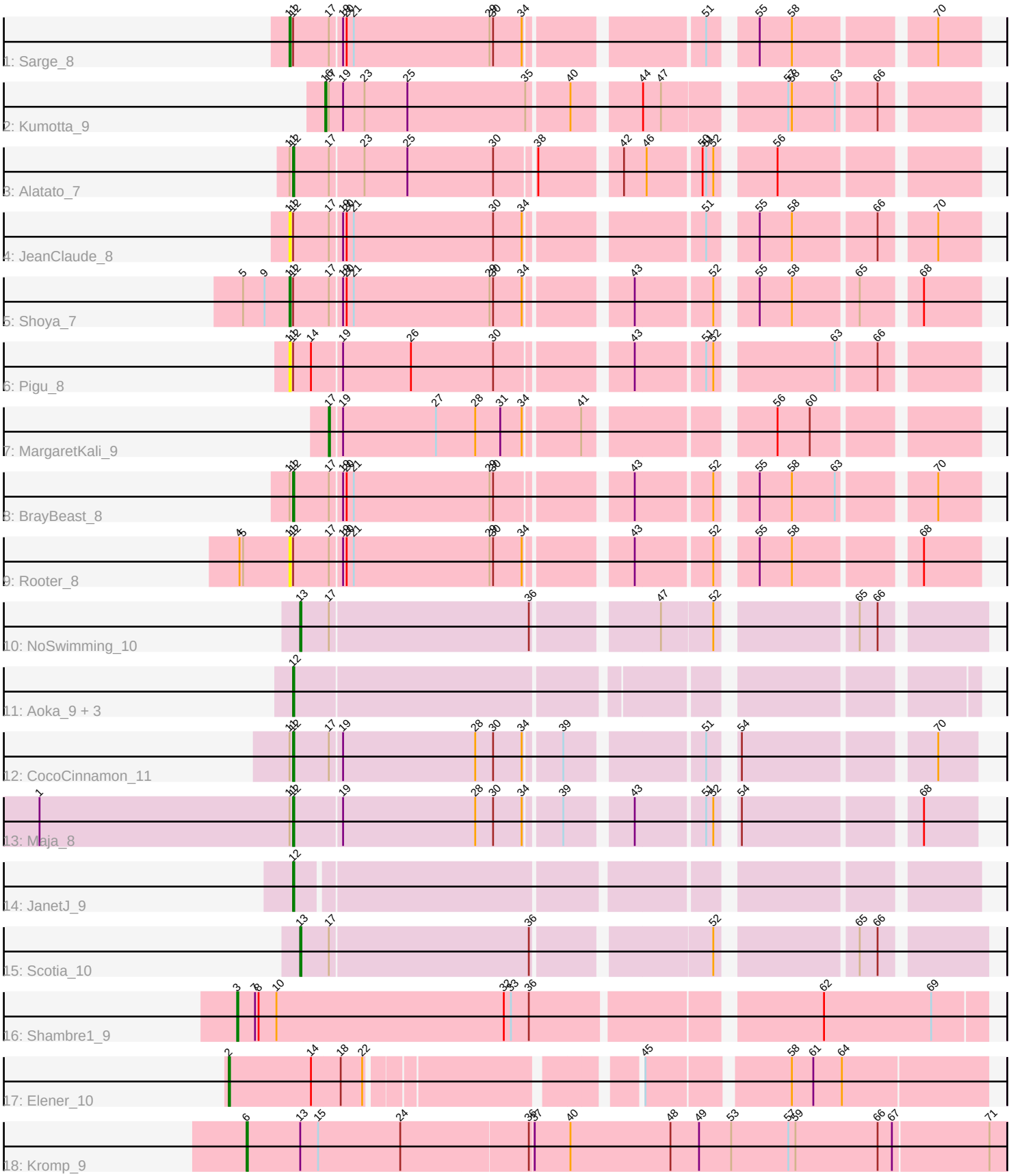
Pham 291546


1: Sarge_8
2: Kumotta_9
3: Alatato_7
4: JeanClaude_8
5: Shoya_7
6: Pigu_8
7: MargaretKali_9
8: BrayBeast_8
9: Rooter_8
10: NoSwimming_10
11: Aoka_9 + 3
12: CocoCinnamon_11
13: Maja_8
14: JanetJ_9
15: Scotia_10
16: Shambre1_9
17: Elener_10
18: Kromp_9

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 291546 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291546 has 21 members, 4 are drafts.

Phages represented in each track:
- Track 1 : Sarge_8
- Track 2 : Kumotta_9
- Track 3 : Alatato_7
- Track 4 : JeanClaude_8
- Track 5 : Shoya_7
- Track 6 : Pigu_8
- Track 7 : MargaretKali_9
- Track 8 : BrayBeast_8
- Track 9 : Rooter_8
- Track 10 : NoSwimming_10
- Track 11 : Aoka_9, EvenBluerMoon_9, Hereford_13, PrairieDogTown_9
- Track 12 : CocoCinnamon_11
- Track 13 : Maja_8
- Track 14 : JanetJ_9
- Track 15 : Scotia_10
- Track 16 : Shambre1_9
- Track 17 : Elener_10
- Track 18 : Kromp_9

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

The start number called the most often in the published annotations is 12, it was called in 8 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Alatato_7, Aoka_9, BrayBeast_8, CocoCinnamon_11, EvenBluerMoon_9, Hereford_13, JanetJ_9, Maja_8, PrairieDogTown_9,

Genes that have the "Most Annotated" start but do not call it:
- JeanClaude_8, Pigu_8, Rooter_8, Sarge_8, Shoya_7,

Genes that do not have the "Most Annotated" start:
- Elener_10, Kromp_9, Kumotta_9, MargaretKali_9, NoSwimming_10, Scotia_10, Shambre1_9,

Summary by start number:

Start 2:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Elener_10 (singleton),

Start 3:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shambre1_9 (singleton),

Start 6:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kromp_9 (singleton),

Start 11:
• Found in 9 of 21 (42.9%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 55.6% of time when present
• Phage (with cluster) where this start called: JeanClaude_8 (FB), Pigu_8 (FB), Rooter_8 (FB), Sarge_8 (FB), Shoya_7 (FB),

Start 12:
• Found in 14 of 21 (66.7%) of genes in pham
• Manual Annotations of this start: 8 of 17
• Called 64.3% of time when present
• Phage (with cluster) where this start called: Alatato_7 (FB), Aoka_9 (FO), BrayBeast_8 (FB), CocoCinnamon_11 (FO), EvenBluerMoon_9 (FO), Hereford_13 (FO), JanetJ_9 (FO), Maja_8 (FO), PrairieDogTown_9 (FO),

Start 13:
• Found in 3 of 21 (14.3%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 66.7% of time when present
• Phage (with cluster) where this start called: NoSwimming_10 (FO), Scotia_10 (FO),

Start 16:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kumotta_9 (FB),

Start 17:
• Found in 11 of 21 (52.4%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 9.1% of time when present
• Phage (with cluster) where this start called: MargaretKali_9 (FB),

Summary by clusters:

There are 3 clusters represented in this pham: FB, singleton, FO,

Info for manual annotations of cluster FB:
•Start number 11 was manually annotated 2 times for cluster FB.
•Start number 12 was manually annotated 2 times for cluster FB.
•Start number 16 was manually annotated 1 time for cluster FB.
•Start number 17 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FO:
•Start number 12 was manually annotated 6 times for cluster FO.
•Start number 13 was manually annotated 2 times for cluster FO.

Gene Information:

Gene: Alatato_7 Start: 6037, Stop: 6552, Start Num: 12
Candidate Starts for Alatato_7:
(Start: 11 @6034 has 2 MA's), (Start: 12 @6037 has 8 MA's), (Start: 17 @6067 has 1 MA's), (23, 6094), (25, 6130), (30, 6202), (38, 6232), (42, 6292), (46, 6310), (50, 6352), (51, 6355), (52, 6361), (56, 6400),

Gene: Aoka_9 Start: 7589, Stop: 8104, Start Num: 12
Candidate Starts for Aoka_9:
(Start: 12 @7589 has 8 MA's),

Gene: BrayBeast_8 Start: 6486, Stop: 7001, Start Num: 12
Candidate Starts for BrayBeast_8:
(Start: 11 @6483 has 2 MA's), (Start: 12 @6486 has 8 MA's), (Start: 17 @6516 has 1 MA's), (19, 6525), (20, 6528), (21, 6534), (29, 6648), (30, 6651), (43, 6750), (52, 6810), (55, 6834), (58, 6861), (63, 6897), (70, 6966),

Gene: CocoCinnamon_11 Start: 7693, Stop: 8205, Start Num: 12
Candidate Starts for CocoCinnamon_11:
(Start: 11 @7690 has 2 MA's), (Start: 12 @7693 has 8 MA's), (Start: 17 @7723 has 1 MA's), (19, 7732), (28, 7843), (30, 7858), (34, 7882), (39, 7909), (51, 8011), (54, 8026), (70, 8173),

Gene: Elener_10 Start: 8382, Stop: 8957, Start Num: 2
Candidate Starts for Elener_10:
(Start: 2 @8382 has 1 MA's), (14, 8451), (18, 8475), (22, 8493), (45, 8688), (58, 8796), (61, 8814), (64, 8838),

Gene: EvenBluerMoon_9 Start: 7623, Stop: 8138, Start Num: 12
Candidate Starts for EvenBluerMoon_9:
(Start: 12 @7623 has 8 MA's),

Gene: Hereford_13 Start: 7768, Stop: 8283, Start Num: 12
Candidate Starts for Hereford_13:
(Start: 12 @7768 has 8 MA's),

Gene: JanetJ_9 Start: 7405, Stop: 7920, Start Num: 12
Candidate Starts for JanetJ_9:
(Start: 12 @7405 has 8 MA's),

Gene: JeanClaude_8 Start: 6390, Stop: 6908, Start Num: 11
Candidate Starts for JeanClaude_8:
(Start: 11 @6390 has 2 MA's), (Start: 12 @6393 has 8 MA's), (Start: 17 @6423 has 1 MA's), (19, 6432), (20, 6435), (21, 6441), (30, 6558), (34, 6582), (51, 6711), (55, 6741), (58, 6768), (66, 6834), (70, 6873),

Gene: Kromp_9 Start: 7708, Stop: 8337, Start Num: 6
Candidate Starts for Kromp_9:
(Start: 6 @7708 has 1 MA's), (Start: 13 @7753 has 2 MA's), (15, 7768), (24, 7837), (36, 7942), (37, 7945), (40, 7975), (48, 8059), (49, 8083), (53, 8110), (57, 8158), (59, 8164), (66, 8233), (67, 8245), (71, 8323),

Gene: Kumotta_9 Start: 7342, Stop: 7839, Start Num: 16
Candidate Starts for Kumotta_9:
(Start: 16 @7342 has 1 MA's), (Start: 17 @7345 has 1 MA's), (19, 7357), (23, 7375), (25, 7411), (35, 7510), (40, 7543), (44, 7591), (47, 7606), (57, 7696), (58, 7699), (63, 7735), (66, 7765),

Gene: Maja_8 Start: 6915, Stop: 7427, Start Num: 12
Candidate Starts for Maja_8:
(1, 6702), (Start: 11 @6912 has 2 MA's), (Start: 12 @6915 has 8 MA's), (19, 6954), (28, 7065), (30, 7080), (34, 7104), (39, 7131), (43, 7179), (51, 7233), (52, 7239), (54, 7248), (68, 7383),

Gene: MargaretKali_9 Start: 6988, Stop: 7473, Start Num: 17
Candidate Starts for MargaretKali_9:
(Start: 17 @6988 has 1 MA's), (19, 6997), (27, 7075), (28, 7108), (31, 7129), (34, 7147), (41, 7189), (56, 7321), (60, 7348),

Gene: NoSwimming_10 Start: 8529, Stop: 9050, Start Num: 13
Candidate Starts for NoSwimming_10:
(Start: 13 @8529 has 2 MA's), (Start: 17 @8553 has 1 MA's), (36, 8718), (47, 8811), (52, 8853), (65, 8955), (66, 8970),

Gene: Pigu_8 Start: 5996, Stop: 6514, Start Num: 11
Candidate Starts for Pigu_8:
(Start: 11 @5996 has 2 MA's), (Start: 12 @5999 has 8 MA's), (14, 6014), (19, 6038), (26, 6095), (30, 6164), (43, 6263), (51, 6317), (52, 6323), (63, 6410), (66, 6440),

Gene: PrairieDogTown_9 Start: 7625, Stop: 8140, Start Num: 12
Candidate Starts for PrairieDogTown_9:
(Start: 12 @7625 has 8 MA's),

Gene: Rooter_8 Start: 6027, Stop: 6545, Start Num: 11
Candidate Starts for Rooter_8:
(4, 5985), (5, 5988), (Start: 11 @6027 has 2 MA's), (Start: 12 @6030 has 8 MA's), (Start: 17 @6060 has 1 MA's), (19, 6069), (20, 6072), (21, 6078), (29, 6192), (30, 6195), (34, 6219), (43, 6294), (52, 6354), (55, 6378), (58, 6405), (68, 6498),

Gene: Sarge_8 Start: 6394, Stop: 6912, Start Num: 11
Candidate Starts for Sarge_8:

(Start: 11 @6394 has 2 MA's), (Start: 12 @6397 has 8 MA's), (Start: 17 @6427 has 1 MA's), (19, 6436), (20, 6439), (21, 6445), (29, 6559), (30, 6562), (34, 6586), (51, 6715), (55, 6745), (58, 6772), (70, 6877),

Gene: Scotia_10 Start: 8535, Stop: 9056, Start Num: 13
Candidate Starts for Scotia_10:
(Start: 13 @8535 has 2 MA's), (Start: 17 @8559 has 1 MA's), (36, 8724), (52, 8859), (65, 8961), (66, 8976),

Gene: Shambre1_9 Start: 7586, Stop: 8185, Start Num: 3
Candidate Starts for Shambre1_9:
(Start: 3 @7586 has 1 MA's), (7, 7601), (8, 7604), (10, 7619), (32, 7808), (33, 7814), (36, 7829), (62, 8051), (69, 8141),

Gene: Shoya_7 Start: 6030, Stop: 6548, Start Num: 11
Candidate Starts for Shoya_7:
(5, 5991), (9, 6009), (Start: 11 @6030 has 2 MA's), (Start: 12 @6033 has 8 MA's), (Start: 17 @6063 has 1 MA's), (19, 6072), (20, 6075), (21, 6081), (29, 6195), (30, 6198), (34, 6222), (43, 6297), (52, 6357), (55, 6381), (58, 6408), (65, 6459), (68, 6501),