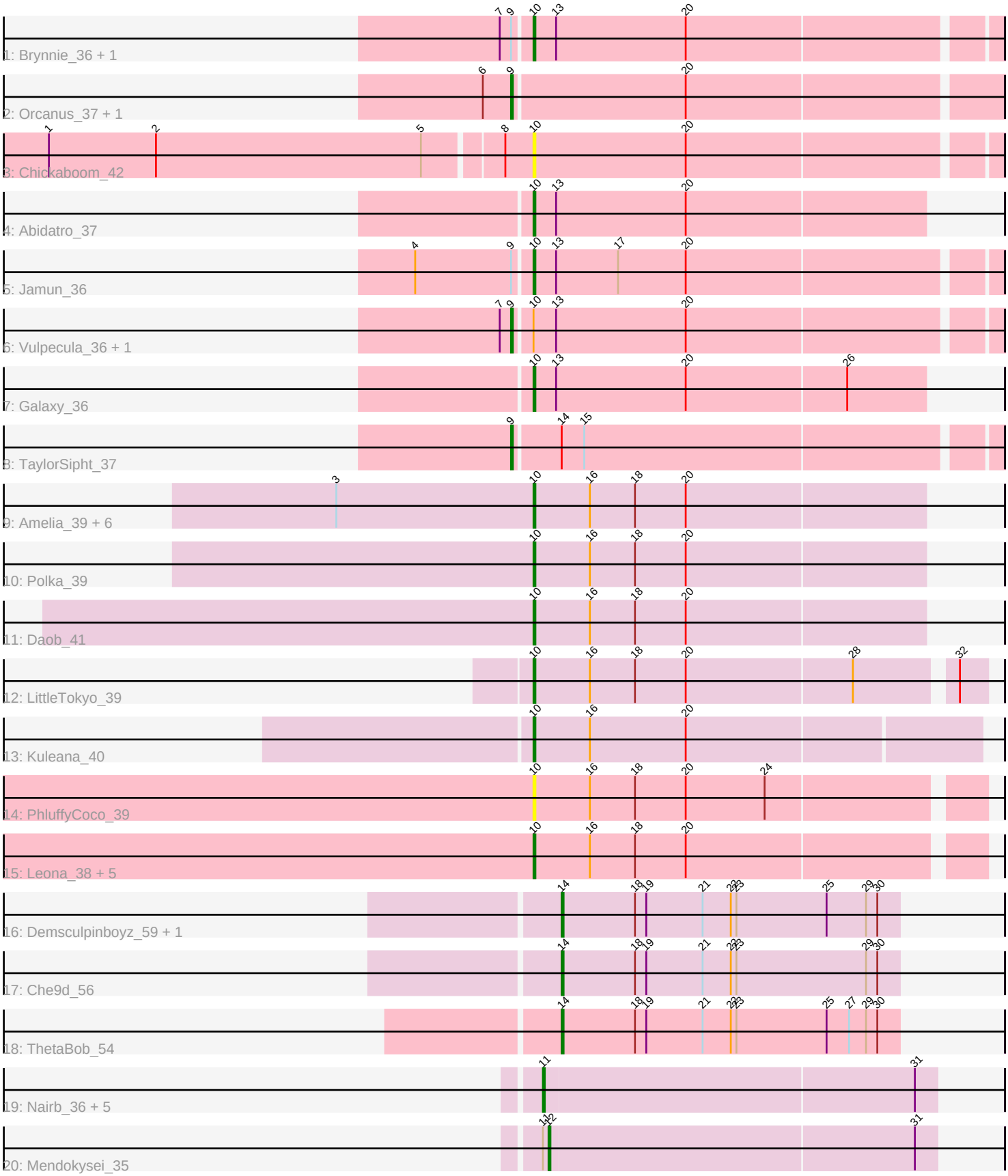
Pham 163735


1: Brynnie_36 + 1
2: Orcanus_37 + 1
3: Chickaboom_42
4: Abidatro_37
5: Jamun_36
6: Vulpecula_36 + 1
7: Galaxy_36
8: TaylorSipht_37
9: Amelia_39 + 6
10: Polka_39
11: Daob_41
12: LittleTokyo_39
13: Kuleana_40
14: PhluffyCoco_39
15: Leona_38 + 5
16: Demsculpinboyz_59 + 1
17: Che9d_56
18: ThetaBob_54
19: Nairb_36 + 5
20: Mendokysei_35

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 163735 Report

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

Pham number 163735 has 40 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Brynnie_36, Basilisk_37
• Track 2 : Orcanus_37, Eesa_36
• Track 3 : Chickaboom_42
• Track 4 : Abidatro_37
• Track 5 : Jamun_36
• Track 6 : Vulpecula_36, Ruchi_36
• Track 7 : Galaxy_36
• Track 8 : TaylorSipht_37
• Track 9 : Amelia_39, Cote_41, Lunar_41, Kepler_41, HannahPhantana_47, Melons_41, Coral_39
• Track 10 : Polka_39
• Track 11 : Daob_41
• Track 12 : LittleTokyo_39
• Track 13 : Kuleana_40
• Track 14 : PhluffyCoco_39
• Track 15 : Leona_38, Juno112_39, Andrew_40, KHumphrey_38, Renna12_38, RedFox_39
• Track 16 : Demsculpinboyz_59, Yoshi_61
• Track 17 : Che9d_56
• Track 18 : ThetaBob_54
• Track 19 : Nairb_36, Whitty_37, ZenTime222_36, Bernal13_37, Ibrahim_37, RonRayGun_37
• Track 20 : Mendokysei_35

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

The start number called the most often in the published annotations is 10, it was called in 19 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abidatro_37, Amelia_39, Andrew_40, Basilisk_37, Brynnie_36, Chickaboom_42, Coral_39, Cote_41, Daob_41, Galaxy_36, HannahPhantana_47, Jamun_36, Juno112_39, KHumphrey_38, Kepler_41, Kuleana_40, Leona_38, LittleTokyo_39, Lunar_41, Melons_41, PhluffyCoco_39, Polka_39, RedFox_39, Renna12_38,

Genes that have the "Most Annotated" start but do not call it:
• Ruchi_36, Vulpecula_36,

Genes that do not have the "Most Annotated" start:
• Bernal13_37, Che9d_56, Demsculpinboyz_59, Eesa_36, Ibrahim_37, Mendokysei_35, Nairb_36, Orcanus_37, RonRayGun_37, TaylorSipht_37, ThetaBob_54, Whitty_37, Yoshi_61, ZenTime222_36,

Summary by start number:

Start 9:
• Found in 8 of 40 (20.0%) of genes in pham
• Manual Annotations of this start: 5 of 35
• Called 62.5% of time when present
• Phage (with cluster) where this start called: Eesa_36 (AS1), Orcanus_37 (AS1), Ruchi_36 (AS1), TaylorSipht_37 (AS1), Vulpecula_36 (AS1),

Start 10:
• Found in 26 of 40 (65.0%) of genes in pham
• Manual Annotations of this start: 19 of 35
• Called 92.3% of time when present
• Phage (with cluster) where this start called: Abidatro_37 (AS1), Amelia_39 (AS2), Andrew_40 (AS3), Basilisk_37 (AS1), Brynnie_36 (AS1), Chickaboom_42 (AS1), Coral_39 (AS2), Cote_41 (AS2), Daob_41 (AS2), Galaxy_36 (AS1), HannahPhantana_47 (AS2), Jamun_36 (AS1), Juno112_39 (AS3), KHumphrey_38 (AS3), Kepler_41 (AS2), Kuleana_40 (AS2), Leona_38 (AS3), LittleTokyo_39 (AS2), Lunar_41 (AS2), Melons_41 (AS2), PhluffyCoco_39 (AS3), Polka_39 (AS2), RedFox_39 (AS3), Renna12_38 (AS3),

Start 11:
• Found in 7 of 40 (17.5%) of genes in pham
• Manual Annotations of this start: 6 of 35
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Bernal13_37 (T), Ibrahim_37 (T), Nairb_36 (T), RonRayGun_37 (T), Whitty_37 (T), ZenTime222_36 (T),

Start 12:
• Found in 1 of 40 (2.5%) of genes in pham
• Manual Annotations of this start: 1 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mendokysei_35 (T),

Start 14:
• Found in 5 of 40 (12.5%) of genes in pham
• Manual Annotations of this start: 4 of 35
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Che9d_56 (F2), Demsculpinboyz_59 (F2), ThetaBob_54 (F4), Yoshi_61 (F2),

Summary by clusters:

There are 6 clusters represented in this pham: AS3, AS2, AS1, F4, F2, T,

Info for manual annotations of cluster AS1:
•Start number 9 was manually annotated 5 times for cluster AS1.
•Start number 10 was manually annotated 5 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 10 was manually annotated 10 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 10 was manually annotated 4 times for cluster AS3.

Info for manual annotations of cluster F2:
•Start number 14 was manually annotated 3 times for cluster F2.

Info for manual annotations of cluster F4:
•Start number 14 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster T:
•Start number 11 was manually annotated 6 times for cluster T.
•Start number 12 was manually annotated 1 time for cluster T.

Gene Information:

Gene: Abidatro_37 Start: 25098, Stop: 25304, Start Num: 10
Candidate Starts for Abidatro_37:
(Start: 10 @25098 has 19 MA's), (13, 25110), (20, 25179),

Gene: Amelia_39 Start: 24861, Stop: 25067, Start Num: 10
Candidate Starts for Amelia_39:
(3, 24756), (Start: 10 @24861 has 19 MA's), (16, 24891), (18, 24915), (20, 24942),

Gene: Andrew_40 Start: 24666, Stop: 24896, Start Num: 10
Candidate Starts for Andrew_40:
(Start: 10 @24666 has 19 MA's), (16, 24696), (18, 24720), (20, 24747),

Gene: Basilisk_37 Start: 25576, Stop: 25815, Start Num: 10
Candidate Starts for Basilisk_37:
(7, 25561), (Start: 9 @25567 has 5 MA's), (Start: 10 @25576 has 19 MA's), (13, 25588), (20, 25657),

Gene: Bernal13_37 Start: 30311, Stop: 30517, Start Num: 11
Candidate Starts for Bernal13_37:
(Start: 11 @30311 has 6 MA's), (31, 30506),

Gene: Brynnie_36 Start: 25454, Stop: 25693, Start Num: 10
Candidate Starts for Brynnie_36:
(7, 25439), (Start: 9 @25445 has 5 MA's), (Start: 10 @25454 has 19 MA's), (13, 25466), (20, 25535),

Gene: Che9d_56 Start: 35970, Stop: 36149, Start Num: 14
Candidate Starts for Che9d_56:
(Start: 14 @35970 has 4 MA's), (18, 36009), (19, 36015), (21, 36045), (22, 36060), (23, 36063), (29, 36132), (30, 36138),

Gene: Chickaboom_42 Start: 25076, Stop: 25315, Start Num: 10
Candidate Starts for Chickaboom_42:
(1, 24824), (2, 24881), (5, 25022), (8, 25061), (Start: 10 @25076 has 19 MA's), (20, 25157),

Gene: Coral_39 Start: 24709, Stop: 24915, Start Num: 10
Candidate Starts for Coral_39:
(3, 24604), (Start: 10 @24709 has 19 MA's), (16, 24739), (18, 24763), (20, 24790),

Gene: Cote_41 Start: 25186, Stop: 25392, Start Num: 10
Candidate Starts for Cote_41:
(3, 25081), (Start: 10 @25186 has 19 MA's), (16, 25216), (18, 25240), (20, 25267),

Gene: Daob_41 Start: 25194, Stop: 25400, Start Num: 10
Candidate Starts for Daob_41:
(Start: 10 @25194 has 19 MA's), (16, 25224), (18, 25248), (20, 25275),

Gene: Demsculpinboyz_59 Start: 36079, Stop: 36258, Start Num: 14
Candidate Starts for Demsculpinboyz_59:
(Start: 14 @36079 has 4 MA's), (18, 36118), (19, 36124), (21, 36154), (22, 36169), (23, 36172), (25, 36220), (29, 36241), (30, 36247),

Gene: Eesa_36 Start: 25937, Stop: 26194, Start Num: 9
Candidate Starts for Eesa_36:
(6, 25922), (Start: 9 @25937 has 5 MA's), (20, 26027),

Gene: Galaxy_36 Start: 24864, Stop: 25070, Start Num: 10
Candidate Starts for Galaxy_36:
(Start: 10 @24864 has 19 MA's), (13, 24876), (20, 24945), (26, 25029),

Gene: HannahPhantana_47 Start: 24856, Stop: 25062, Start Num: 10
Candidate Starts for HannahPhantana_47:
(3, 24751), (Start: 10 @24856 has 19 MA's), (16, 24886), (18, 24910), (20, 24937),

Gene: Ibrahim_37 Start: 30757, Stop: 30963, Start Num: 11
Candidate Starts for Ibrahim_37:
(Start: 11 @30757 has 6 MA's), (31, 30952),

Gene: Jamun_36 Start: 25116, Stop: 25355, Start Num: 10
Candidate Starts for Jamun_36:
(4, 25056), (Start: 9 @25107 has 5 MA's), (Start: 10 @25116 has 19 MA's), (13, 25128), (17, 25161), (20, 25197),

Gene: Juno112_39 Start: 24776, Stop: 25006, Start Num: 10
Candidate Starts for Juno112_39:
(Start: 10 @24776 has 19 MA's), (16, 24806), (18, 24830), (20, 24857),

Gene: KHumphrey_38 Start: 24775, Stop: 25005, Start Num: 10
Candidate Starts for KHumphrey_38:
(Start: 10 @24775 has 19 MA's), (16, 24805), (18, 24829), (20, 24856),

Gene: Kepler_41 Start: 25604, Stop: 25810, Start Num: 10
Candidate Starts for Kepler_41:

(3, 25499), (Start: 10 @25604 has 19 MA's), (16, 25634), (18, 25658), (20, 25685),

Gene: Kuleana_40 Start: 25028, Stop: 25261, Start Num: 10
Candidate Starts for Kuleana_40:
(Start: 10 @25028 has 19 MA's), (16, 25058), (20, 25109),

Gene: Leona_38 Start: 24847, Stop: 25077, Start Num: 10
Candidate Starts for Leona_38:
(Start: 10 @24847 has 19 MA's), (16, 24877), (18, 24901), (20, 24928),

Gene: LittleTokyo_39 Start: 24706, Stop: 24936, Start Num: 10
Candidate Starts for LittleTokyo_39:
(Start: 10 @24706 has 19 MA's), (16, 24736), (18, 24760), (20, 24787), (28, 24874), (32, 24922),

Gene: Lunar_41 Start: 25520, Stop: 25726, Start Num: 10
Candidate Starts for Lunar_41:
(3, 25415), (Start: 10 @25520 has 19 MA's), (16, 25550), (18, 25574), (20, 25601),

Gene: Melons_41 Start: 25334, Stop: 25540, Start Num: 10
Candidate Starts for Melons_41:
(3, 25229), (Start: 10 @25334 has 19 MA's), (16, 25364), (18, 25388), (20, 25415),

Gene: Mendokysei_35 Start: 29852, Stop: 30055, Start Num: 12
Candidate Starts for Mendokysei_35:
(Start: 11 @29849 has 6 MA's), (Start: 12 @29852 has 1 MA's), (31, 30044),

Gene: Nairb_36 Start: 30311, Stop: 30517, Start Num: 11
Candidate Starts for Nairb_36:
(Start: 11 @30311 has 6 MA's), (31, 30506),

Gene: Orcanus_37 Start: 25466, Stop: 25717, Start Num: 9
Candidate Starts for Orcanus_37:
(6, 25451), (Start: 9 @25466 has 5 MA's), (20, 25556),

Gene: PhluffyCoco_39 Start: 24772, Stop: 25002, Start Num: 10
Candidate Starts for PhluffyCoco_39:
(Start: 10 @24772 has 19 MA's), (16, 24802), (18, 24826), (20, 24853), (24, 24895),

Gene: Polka_39 Start: 24710, Stop: 24916, Start Num: 10
Candidate Starts for Polka_39:
(Start: 10 @24710 has 19 MA's), (16, 24740), (18, 24764), (20, 24791),

Gene: RedFox_39 Start: 24771, Stop: 25001, Start Num: 10
Candidate Starts for RedFox_39:
(Start: 10 @24771 has 19 MA's), (16, 24801), (18, 24825), (20, 24852),

Gene: Renna12_38 Start: 24811, Stop: 25059, Start Num: 10
Candidate Starts for Renna12_38:
(Start: 10 @24811 has 19 MA's), (16, 24841), (18, 24865), (20, 24892),

Gene: RonRayGun_37 Start: 30757, Stop: 30963, Start Num: 11
Candidate Starts for RonRayGun_37:
(Start: 11 @30757 has 6 MA's), (31, 30952),

Gene: Ruchi_36 Start: 25513, Stop: 25761, Start Num: 9
Candidate Starts for Ruchi_36:
(7, 25507), (Start: 9 @25513 has 5 MA's), (Start: 10 @25522 has 19 MA's), (13, 25534), (20, 25603),

Gene: TaylorSipht_37 Start: 24886, Stop: 25134, Start Num: 9
Candidate Starts for TaylorSipht_37:
(Start: 9 @24886 has 5 MA's), (Start: 14 @24910 has 4 MA's), (15, 24922),

Gene: ThetaBob_54 Start: 36886, Stop: 37065, Start Num: 14
Candidate Starts for ThetaBob_54:
(Start: 14 @36886 has 4 MA's), (18, 36925), (19, 36931), (21, 36961), (22, 36976), (23, 36979), (25, 37027), (27, 37039), (29, 37048), (30, 37054),

Gene: Vulpecula_36 Start: 25190, Stop: 25438, Start Num: 9
Candidate Starts for Vulpecula_36:
(7, 25184), (Start: 9 @25190 has 5 MA's), (Start: 10 @25199 has 19 MA's), (13, 25211), (20, 25280),

Gene: Whitty_37 Start: 30311, Stop: 30517, Start Num: 11
Candidate Starts for Whitty_37:
(Start: 11 @30311 has 6 MA's), (31, 30506),

Gene: Yoshi_61 Start: 38120, Stop: 38299, Start Num: 14
Candidate Starts for Yoshi_61:
(Start: 14 @38120 has 4 MA's), (18, 38159), (19, 38165), (21, 38195), (22, 38210), (23, 38213), (25, 38261), (29, 38282), (30, 38288),

Gene: ZenTime222_36 Start: 30311, Stop: 30517, Start Num: 11
Candidate Starts for ZenTime222_36:
(Start: 11 @30311 has 6 MA's), (31, 30506),