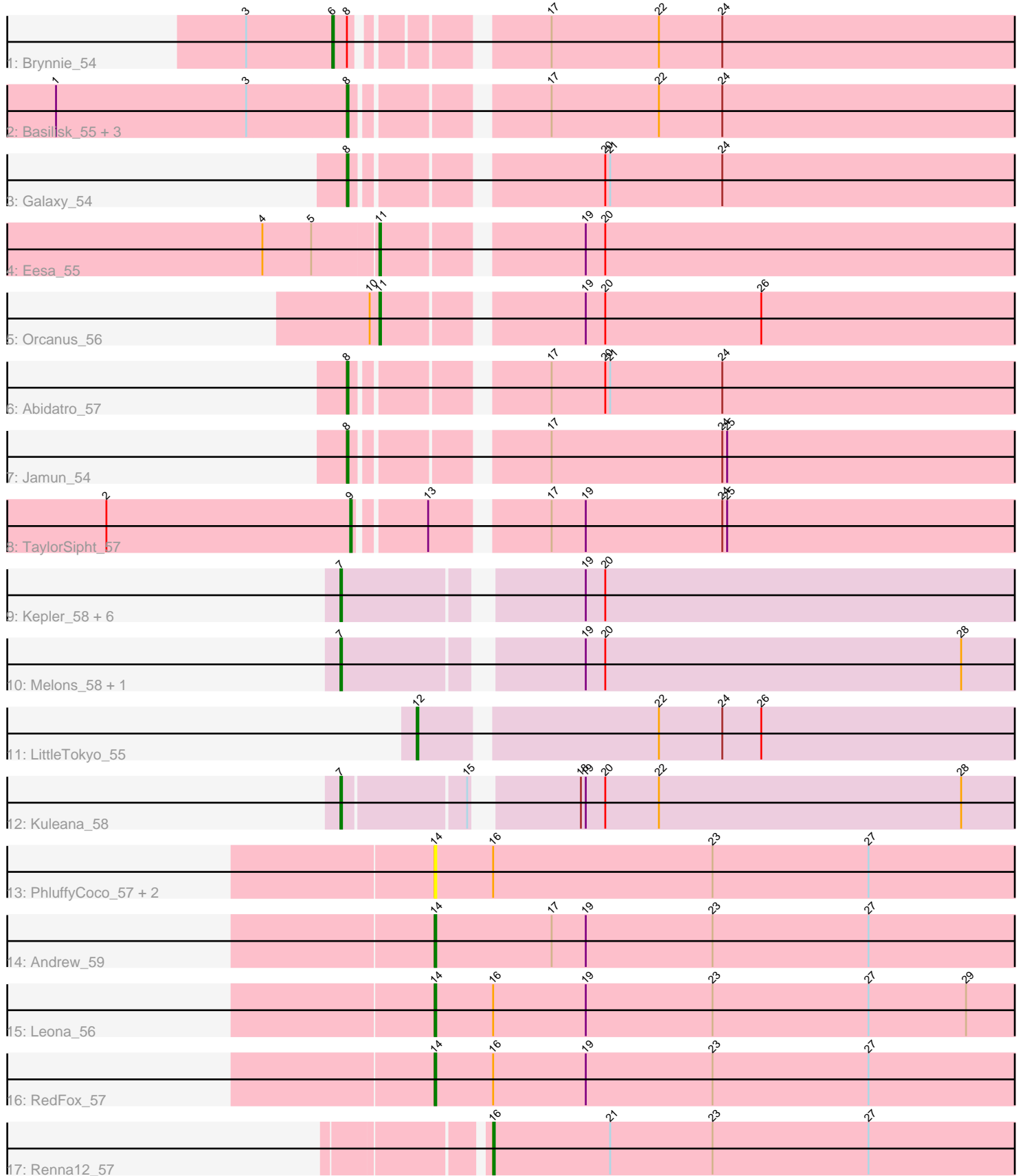# Pham 158090

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 158090 Report

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

Pham number 158090 has 29 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Brynnie_54
• Track 2 : Basilisk_55, Chickaboom_60, Vulpecula_54, Ruchi_54
• Track 3 : Galaxy_54
• Track 4 : Eesa_55
• Track 5 : Orcanus_56
• Track 6 : Abidatro_57
• Track 7 : Jamun_54
• Track 8 : TaylorSipht_57
• Track 9 : Kepler_58, Amelia_56, Cote_59, Coral_56, Polka_56, HannahPhantana_64, Lunar_58
• Track 10 : Melons_58, Daob_58
• Track 11 : LittleTokyo_55
• Track 12 : Kuleana_58
• Track 13 : PhluffyCoco_57, Juno112_57, KHumphrey_56
• Track 14 : Andrew_59
• Track 15 : Leona_56
• Track 16 : RedFox_57
• Track 17 : Renna12_57

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

The start number called the most often in the published annotations is 7, it was called in 9 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amelia_56, Coral_56, Cote_59, Daob_58, HannahPhantana_64, Kepler_58, Kuleana_58, Lunar_58, Melons_58, Polka_56,

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

Genes that do not have the "Most Annotated" start:
• Abidatro_57, Andrew_59, Basilisk_55, Brynnie_54, Chickaboom_60, Eesa_55, Galaxy_54, Jamun_54, Juno112_57, KHumphrey_56, Leona_56, LittleTokyo_55,

Orcanus_56, PhluffyCoco_57, RedFox_57, Renna12_57, Ruchi_54, TaylorSipht_57, Vulpecula_54,

Summary by start number:

Start 6:
• Found in 1 of 29 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Brynnie_54 (AS1),

Start 7:
• Found in 10 of 29 (34.5%) of genes in pham
• Manual Annotations of this start: 9 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amelia_56 (AS2), Coral_56 (AS2), Cote_59 (AS2), Daob_58 (AS2), HannahPhantana_64 (AS2), Kepler_58 (AS2), Kuleana_58 (AS2), Lunar_58 (AS2), Melons_58 (AS2), Polka_56 (AS2),

Start 8:
• Found in 8 of 29 (27.6%) of genes in pham
• Manual Annotations of this start: 6 of 24
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Abidatro_57 (AS1), Basilisk_55 (AS1), Chickaboom_60 (AS1), Galaxy_54 (AS1), Jamun_54 (AS1), Ruchi_54 (AS1), Vulpecula_54 (AS1),

Start 9:
• Found in 1 of 29 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TaylorSipht_57 (AS1),

Start 11:
• Found in 2 of 29 (6.9%) of genes in pham
• Manual Annotations of this start: 2 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Eesa_55 (AS1), Orcanus_56 (AS1),

Start 12:
• Found in 1 of 29 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LittleTokyo_55 (AS2),

Start 14:
• Found in 6 of 29 (20.7%) of genes in pham
• Manual Annotations of this start: 3 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Andrew_59 (AS3), Juno112_57 (AS3), KHumphrey_56 (AS3), Leona_56 (AS3), PhluffyCoco_57 (AS3), RedFox_57 (AS3),

Start 16:

- Found in 6 of 29 (20.7%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Renna12_57 (AS3),

Summary by clusters:

There are 3 clusters represented in this pham: AS3, AS2, AS1,

Info for manual annotations of cluster AS1:
•Start number 6 was manually annotated 1 time for cluster AS1.
•Start number 8 was manually annotated 6 times for cluster AS1.
•Start number 9 was manually annotated 1 time for cluster AS1.
•Start number 11 was manually annotated 2 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 7 was manually annotated 9 times for cluster AS2.
•Start number 12 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 14 was manually annotated 3 times for cluster AS3.
•Start number 16 was manually annotated 1 time for cluster AS3.

Gene Information:

Gene: Abidatro_57 Start: 35985, Stop: 36374, Start Num: 8
Candidate Starts for Abidatro_57:
(Start: 8 @35985 has 6 MA's), (17, 36087), (20, 36120), (21, 36123), (24, 36192),

Gene: Amelia_56 Start: 33981, Stop: 34379, Start Num: 7
Candidate Starts for Amelia_56:
(Start: 7 @33981 has 9 MA's), (19, 34113), (20, 34125),

Gene: Andrew_59 Start: 35202, Stop: 35561, Start Num: 14
Candidate Starts for Andrew_59:
(Start: 14 @35202 has 3 MA's), (17, 35274), (19, 35295), (23, 35373), (27, 35469),

Gene: Basilisk_55 Start: 35212, Stop: 35601, Start Num: 8
Candidate Starts for Basilisk_55:
(1, 35035), (3, 35152), (Start: 8 @35212 has 6 MA's), (17, 35314), (22, 35380), (24, 35419),

Gene: Brynnie_54 Start: 35104, Stop: 35496, Start Num: 6
Candidate Starts for Brynnie_54:
(3, 35053), (Start: 6 @35104 has 1 MA's), (Start: 8 @35113 has 6 MA's), (17, 35209), (22, 35275), (24, 35314),

Gene: Chickaboom_60 Start: 35548, Stop: 35937, Start Num: 8
Candidate Starts for Chickaboom_60:
(1, 35371), (3, 35488), (Start: 8 @35548 has 6 MA's), (17, 35650), (22, 35716), (24, 35755),

Gene: Coral_56 Start: 33886, Stop: 34284, Start Num: 7

Candidate Starts for Coral_56:
(Start: 7 @33886 has 9 MA's), (19, 34018), (20, 34030),

Gene: Cote_59 Start: 34319, Stop: 34717, Start Num: 7
Candidate Starts for Cote_59:
(Start: 7 @34319 has 9 MA's), (19, 34451), (20, 34463),

Gene: Daob_58 Start: 34330, Stop: 34728, Start Num: 7
Candidate Starts for Daob_58:
(Start: 7 @34330 has 9 MA's), (19, 34462), (20, 34474), (28, 34693),

Gene: Eesa_55 Start: 36339, Stop: 36716, Start Num: 11
Candidate Starts for Eesa_55:
(4, 36270), (5, 36300), (Start: 11 @36339 has 2 MA's), (19, 36450), (20, 36462),

Gene: Galaxy_54 Start: 34402, Stop: 34791, Start Num: 8
Candidate Starts for Galaxy_54:
(Start: 8 @34402 has 6 MA's), (20, 34537), (21, 34540), (24, 34609),

Gene: HannahPhantana_64 Start: 33976, Stop: 34374, Start Num: 7
Candidate Starts for HannahPhantana_64:
(Start: 7 @33976 has 9 MA's), (19, 34108), (20, 34120),

Gene: Jamun_54 Start: 35634, Stop: 36023, Start Num: 8
Candidate Starts for Jamun_54:
(Start: 8 @35634 has 6 MA's), (17, 35736), (24, 35841), (25, 35844),

Gene: Juno112_57 Start: 34906, Stop: 35265, Start Num: 14
Candidate Starts for Juno112_57:
(Start: 14 @34906 has 3 MA's), (Start: 16 @34942 has 1 MA's), (23, 35077), (27, 35173),

Gene: KHumphrey_56 Start: 34794, Stop: 35153, Start Num: 14
Candidate Starts for KHumphrey_56:
(Start: 14 @34794 has 3 MA's), (Start: 16 @34830 has 1 MA's), (23, 34965), (27, 35061),

Gene: Kepler_58 Start: 34097, Stop: 34495, Start Num: 7
Candidate Starts for Kepler_58:
(Start: 7 @34097 has 9 MA's), (19, 34229), (20, 34241),

Gene: Kuleana_58 Start: 34415, Stop: 34810, Start Num: 7
Candidate Starts for Kuleana_58:
(Start: 7 @34415 has 9 MA's), (15, 34487), (18, 34541), (19, 34544), (20, 34556), (22, 34589), (28, 34775),

Gene: Leona_56 Start: 34989, Stop: 35348, Start Num: 14
Candidate Starts for Leona_56:
(Start: 14 @34989 has 3 MA's), (Start: 16 @35025 has 1 MA's), (19, 35082), (23, 35160), (27, 35256), (29, 35316),

Gene: LittleTokyo_55 Start: 33618, Stop: 33974, Start Num: 12
Candidate Starts for LittleTokyo_55:
(Start: 12 @33618 has 1 MA's), (22, 33753), (24, 33792), (26, 33816),

Gene: Lunar_58 Start: 34009, Stop: 34407, Start Num: 7
Candidate Starts for Lunar_58:
(Start: 7 @34009 has 9 MA's), (19, 34141), (20, 34153),

Gene: Melons_58 Start: 33823, Stop: 34221, Start Num: 7
Candidate Starts for Melons_58:
(Start: 7 @33823 has 9 MA's), (19, 33955), (20, 33967), (28, 34186),

Gene: Orcanus_56 Start: 36030, Stop: 36407, Start Num: 11
Candidate Starts for Orcanus_56:
(10, 36024), (Start: 11 @36030 has 2 MA's), (19, 36141), (20, 36153), (26, 36249),

Gene: PhluffyCoco_57 Start: 35005, Stop: 35364, Start Num: 14
Candidate Starts for PhluffyCoco_57:
(Start: 14 @35005 has 3 MA's), (Start: 16 @35041 has 1 MA's), (23, 35176), (27, 35272),

Gene: Polka_56 Start: 33831, Stop: 34229, Start Num: 7
Candidate Starts for Polka_56:
(Start: 7 @33831 has 9 MA's), (19, 33963), (20, 33975),

Gene: RedFox_57 Start: 35003, Stop: 35362, Start Num: 14
Candidate Starts for RedFox_57:
(Start: 14 @35003 has 3 MA's), (Start: 16 @35039 has 1 MA's), (19, 35096), (23, 35174), (27, 35270),

Gene: Renna12_57 Start: 35155, Stop: 35478, Start Num: 16
Candidate Starts for Renna12_57:
(Start: 16 @35155 has 1 MA's), (21, 35227), (23, 35290), (27, 35386),

Gene: Ruchi_54 Start: 35134, Stop: 35523, Start Num: 8
Candidate Starts for Ruchi_54:
(1, 34957), (3, 35074), (Start: 8 @35134 has 6 MA's), (17, 35236), (22, 35302), (24, 35341),

Gene: TaylorSipht_57 Start: 35813, Stop: 36202, Start Num: 9
Candidate Starts for TaylorSipht_57:
(2, 35663), (Start: 9 @35813 has 1 MA's), (13, 35852), (17, 35915), (19, 35936), (24, 36020), (25, 36023),

Gene: Vulpecula_54 Start: 34794, Stop: 35183, Start Num: 8
Candidate Starts for Vulpecula_54:
(1, 34617), (3, 34734), (Start: 8 @34794 has 6 MA's), (17, 34896), (22, 34962), (24, 35001),