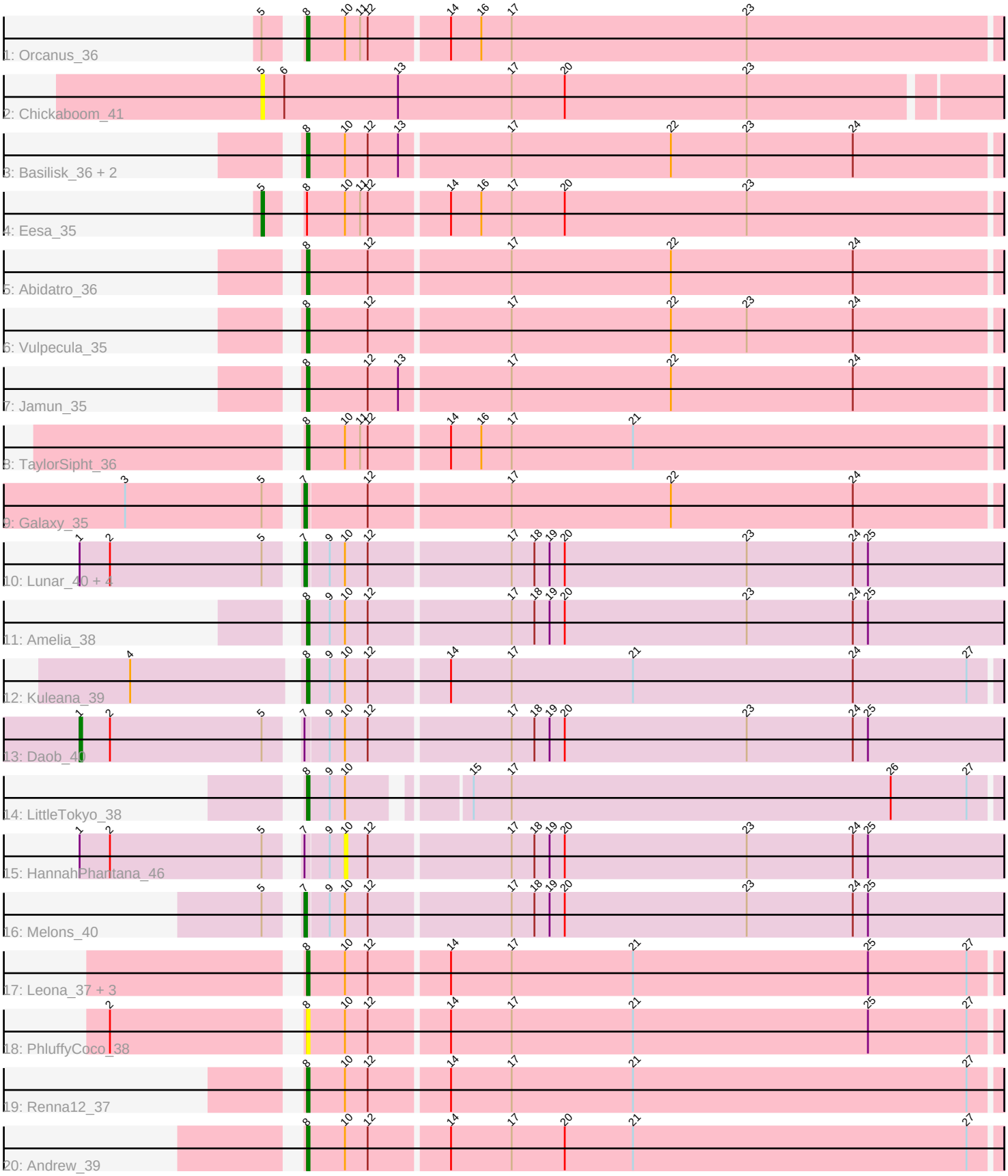
Pham 86425


1: Orcanus_36
2: Chickaboom_41
3: Basilisk_36 + 2
4: Eesa_35
5: Abidatro_36
6: Vulpecula_35
7: Jamun_35
8: TaylorSipht_36
9: Galaxy_35
10: Lunar_40 + 4
11: Amelia_38
12: Kuleana_39
13: Daob_40
14: LittleTokyo_38
15: HannahPhantana_46
16: Melons_40
17: Leona_37 + 3
18: PhluffyCoco_38
19: Renna12_37
20: Andrew_39

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 86425 Report

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

Pham number 86425 has 29 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Orcanus_36
• Track 2 : Chickaboom_41
• Track 3 : Basilisk_36, Ruchi_35, Brynnie_35
• Track 4 : Eesa_35
• Track 5 : Abidatro_36
• Track 6 : Vulpecula_35
• Track 7 : Jamun_35
• Track 8 : TaylorSipht_36
• Track 9 : Galaxy_35
• Track 10 : Lunar_40, Polka_38, Kepler_40, Coral_38, Cote_40
• Track 11 : Amelia_38
• Track 12 : Kuleana_39
• Track 13 : Daob_40
• Track 14 : LittleTokyo_38
• Track 15 : HannahPhantana_46
• Track 16 : Melons_40
• Track 17 : Leona_37, Juno112_38, KHumphrey_37, RedFox_38
• Track 18 : PhluffyCoco_38
• Track 19 : Renna12_37
• Track 20 : Andrew_39

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

The start number called the most often in the published annotations is 8, it was called in 15 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abidatro_36, Amelia_38, Andrew_39, Basilisk_36, Brynnie_35, Jamun_35, Juno112_38, KHumphrey_37, Kuleana_39, Leona_37, LittleTokyo_38, Orcanus_36, PhluffyCoco_38, RedFox_38, Renna12_37, Ruchi_35, TaylorSipht_36, Vulpecula_35,

Genes that have the "Most Annotated" start but do not call it:
• Eesa_35,

Genes that do not have the "Most Annotated" start:
• Chickaboom_41, Coral_38, Cote_40, Daob_40, Galaxy_35, HannahPhantana_46, Kepler_40, Lunar_40, Melons_40, Polka_38,

Summary by start number:

Start 1:
• Found in 7 of 29 (24.1%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Daob_40 (AS2),

Start 5:
• Found in 12 of 29 (41.4%) 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: Chickaboom_41 (AS1), Eesa_35 (AS1),

Start 7:
• Found in 9 of 29 (31.0%) of genes in pham
• Manual Annotations of this start: 7 of 24
• Called 77.8% of time when present
• Phage (with cluster) where this start called: Coral_38 (AS2), Cote_40 (AS2), Galaxy_35 (AS1), Kepler_40 (AS2), Lunar_40 (AS2), Melons_40 (AS2), Polka_38 (AS2),

Start 8:
• Found in 19 of 29 (65.5%) of genes in pham
• Manual Annotations of this start: 15 of 24
• Called 94.7% of time when present
• Phage (with cluster) where this start called: Abidatro_36 (AS1), Amelia_38 (AS2), Andrew_39 (AS3), Basilisk_36 (AS1), Brynnie_35 (AS1), Jamun_35 (AS1), Juno112_38 (AS3), KHumphrey_37 (AS3), Kuleana_39 (AS2), Leona_37 (AS3), LittleTokyo_38 (AS2), Orcanus_36 (AS1), PhluffyCoco_38 (AS3), RedFox_38 (AS3), Renna12_37 (AS3), Ruchi_35 (AS1), TaylorSipht_36 (AS1), Vulpecula_35 (AS1),

Start 10:
• Found in 24 of 29 (82.8%) of genes in pham
• No Manual Annotations of this start.
• Called 4.2% of time when present
• Phage (with cluster) where this start called: HannahPhantana_46 (AS2),

Summary by clusters:

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

Info for manual annotations of cluster AS1:
•Start number 5 was manually annotated 1 time for cluster AS1.
•Start number 7 was manually annotated 1 time for cluster AS1.
•Start number 8 was manually annotated 8 times for cluster AS1.

Info for manual annotations of cluster AS2:

•Start number 1 was manually annotated 1 time for cluster AS2.
•Start number 7 was manually annotated 6 times for cluster AS2.
•Start number 8 was manually annotated 3 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 8 was manually annotated 4 times for cluster AS3.

Gene Information:

Gene: Abidatro_36 Start: 24827, Stop: 25096, Start Num: 8
Candidate Starts for Abidatro_36:
(Start: 8 @24827 has 15 MA's), (12, 24851), (17, 24905), (22, 24968), (24, 25040),

Gene: Amelia_38 Start: 24587, Stop: 24859, Start Num: 8
Candidate Starts for Amelia_38:
(Start: 8 @24587 has 15 MA's), (9, 24596), (10, 24602), (12, 24611), (17, 24665), (18, 24674), (19, 24680), (20, 24686), (23, 24758), (24, 24800), (25, 24806),

Gene: Andrew_39 Start: 24396, Stop: 24665, Start Num: 8
Candidate Starts for Andrew_39:
(Start: 8 @24396 has 15 MA's), (10, 24411), (12, 24420), (14, 24450), (17, 24474), (20, 24495), (21, 24522), (27, 24654),

Gene: Basilisk_36 Start: 25305, Stop: 25574, Start Num: 8
Candidate Starts for Basilisk_36:
(Start: 8 @25305 has 15 MA's), (10, 25320), (12, 25329), (13, 25341), (17, 25383), (22, 25446), (23, 25476), (24, 25518),

Gene: Brynnie_35 Start: 25183, Stop: 25452, Start Num: 8
Candidate Starts for Brynnie_35:
(Start: 8 @25183 has 15 MA's), (10, 25198), (12, 25207), (13, 25219), (17, 25261), (22, 25324), (23, 25354), (24, 25396),

Gene: Chickaboom_41 Start: 24787, Stop: 25074, Start Num: 5
Candidate Starts for Chickaboom_41:
(Start: 5 @24787 has 1 MA's), (6, 24796), (13, 24841), (17, 24886), (20, 24907), (23, 24979),

Gene: Coral_38 Start: 24435, Stop: 24707, Start Num: 7
Candidate Starts for Coral_38:
(Start: 1 @24354 has 1 MA's), (2, 24366), (Start: 5 @24426 has 1 MA's), (Start: 7 @24435 has 7 MA's), (9, 24444), (10, 24450), (12, 24459), (17, 24513), (18, 24522), (19, 24528), (20, 24534), (23, 24606), (24, 24648), (25, 24654),

Gene: Cote_40 Start: 24912, Stop: 25184, Start Num: 7
Candidate Starts for Cote_40:
(Start: 1 @24831 has 1 MA's), (2, 24843), (Start: 5 @24903 has 1 MA's), (Start: 7 @24912 has 7 MA's), (9, 24921), (10, 24927), (12, 24936), (17, 24990), (18, 24999), (19, 25005), (20, 25011), (23, 25083), (24, 25125), (25, 25131),

Gene: Daob_40 Start: 24839, Stop: 25192, Start Num: 1
Candidate Starts for Daob_40:

(Start: 1 @24839 has 1 MA's), (2, 24851), (Start: 5 @24911 has 1 MA's), (Start: 7 @24920 has 7 MA's), (9, 24929), (10, 24935), (12, 24944), (17, 24998), (18, 25007), (19, 25013), (20, 25019), (23, 25091), (24, 25133), (25, 25139),

Gene: Eesa_35 Start: 25666, Stop: 25944, Start Num: 5
Candidate Starts for Eesa_35:
(Start: 5 @25666 has 1 MA's), (Start: 8 @25675 has 15 MA's), (10, 25690), (11, 25696), (12, 25699), (14, 25729), (16, 25741), (17, 25753), (20, 25774), (23, 25846),

Gene: Galaxy_35 Start: 24593, Stop: 24862, Start Num: 7
Candidate Starts for Galaxy_35:
(3, 24530), (Start: 5 @24584 has 1 MA's), (Start: 7 @24593 has 7 MA's), (12, 24617), (17, 24671), (22, 24734), (24, 24806),

Gene: HannahPhantana_46 Start: 24597, Stop: 24854, Start Num: 10
Candidate Starts for HannahPhantana_46:
(Start: 1 @24501 has 1 MA's), (2, 24513), (Start: 5 @24573 has 1 MA's), (Start: 7 @24582 has 7 MA's), (9, 24591), (10, 24597), (12, 24606), (17, 24660), (18, 24669), (19, 24675), (20, 24681), (23, 24753), (24, 24795), (25, 24801),

Gene: Jamun_35 Start: 24845, Stop: 25114, Start Num: 8
Candidate Starts for Jamun_35:
(Start: 8 @24845 has 15 MA's), (12, 24869), (13, 24881), (17, 24923), (22, 24986), (24, 25058),

Gene: Juno112_38 Start: 24506, Stop: 24775, Start Num: 8
Candidate Starts for Juno112_38:
(Start: 8 @24506 has 15 MA's), (10, 24521), (12, 24530), (14, 24560), (17, 24584), (21, 24632), (25, 24725), (27, 24764),

Gene: KHumphrey_37 Start: 24505, Stop: 24774, Start Num: 8
Candidate Starts for KHumphrey_37:
(Start: 8 @24505 has 15 MA's), (10, 24520), (12, 24529), (14, 24559), (17, 24583), (21, 24631), (25, 24724), (27, 24763),

Gene: Kepler_40 Start: 25330, Stop: 25602, Start Num: 7
Candidate Starts for Kepler_40:
(Start: 1 @25249 has 1 MA's), (2, 25261), (Start: 5 @25321 has 1 MA's), (Start: 7 @25330 has 7 MA's), (9, 25339), (10, 25345), (12, 25354), (17, 25408), (18, 25417), (19, 25423), (20, 25429), (23, 25501), (24, 25543), (25, 25549),

Gene: Kuleana_39 Start: 24757, Stop: 25026, Start Num: 8
Candidate Starts for Kuleana_39:
(4, 24694), (Start: 8 @24757 has 15 MA's), (9, 24766), (10, 24772), (12, 24781), (14, 24811), (17, 24835), (21, 24883), (24, 24970), (27, 25015),

Gene: Leona_37 Start: 24577, Stop: 24846, Start Num: 8
Candidate Starts for Leona_37:
(Start: 8 @24577 has 15 MA's), (10, 24592), (12, 24601), (14, 24631), (17, 24655), (21, 24703), (25, 24796), (27, 24835),

Gene: LittleTokyo_38 Start: 24443, Stop: 24703, Start Num: 8
Candidate Starts for LittleTokyo_38:

(Start: 8 @24443 has 15 MA's), (9, 24452), (10, 24458), (15, 24497), (17, 24512), (26, 24662), (27, 24692),

Gene: Lunar_40 Start: 25246, Stop: 25518, Start Num: 7
Candidate Starts for Lunar_40:
(Start: 1 @25165 has 1 MA's), (2, 25177), (Start: 5 @25237 has 1 MA's), (Start: 7 @25246 has 7 MA's), (9, 25255), (10, 25261), (12, 25270), (17, 25324), (18, 25333), (19, 25339), (20, 25345), (23, 25417), (24, 25459), (25, 25465),

Gene: Melons_40 Start: 25060, Stop: 25332, Start Num: 7
Candidate Starts for Melons_40:
(Start: 5 @25051 has 1 MA's), (Start: 7 @25060 has 7 MA's), (9, 25069), (10, 25075), (12, 25084), (17, 25138), (18, 25147), (19, 25153), (20, 25159), (23, 25231), (24, 25273), (25, 25279),

Gene: Orcanus_36 Start: 25204, Stop: 25473, Start Num: 8
Candidate Starts for Orcanus_36:
(Start: 5 @25195 has 1 MA's), (Start: 8 @25204 has 15 MA's), (10, 25219), (11, 25225), (12, 25228), (14, 25258), (16, 25270), (17, 25282), (23, 25375),

Gene: PhluffyCoco_38 Start: 24502, Stop: 24771, Start Num: 8
Candidate Starts for PhluffyCoco_38:
(2, 24433), (Start: 8 @24502 has 15 MA's), (10, 24517), (12, 24526), (14, 24556), (17, 24580), (21, 24628), (25, 24721), (27, 24760),

Gene: Polka_38 Start: 24436, Stop: 24708, Start Num: 7
Candidate Starts for Polka_38:
(Start: 1 @24355 has 1 MA's), (2, 24367), (Start: 5 @24427 has 1 MA's), (Start: 7 @24436 has 7 MA's), (9, 24445), (10, 24451), (12, 24460), (17, 24514), (18, 24523), (19, 24529), (20, 24535), (23, 24607), (24, 24649), (25, 24655),

Gene: RedFox_38 Start: 24501, Stop: 24770, Start Num: 8
Candidate Starts for RedFox_38:
(Start: 8 @24501 has 15 MA's), (10, 24516), (12, 24525), (14, 24555), (17, 24579), (21, 24627), (25, 24720), (27, 24759),

Gene: Renna12_37 Start: 24541, Stop: 24810, Start Num: 8
Candidate Starts for Renna12_37:
(Start: 8 @24541 has 15 MA's), (10, 24556), (12, 24565), (14, 24595), (17, 24619), (21, 24667), (27, 24799),

Gene: Ruchi_35 Start: 25251, Stop: 25520, Start Num: 8
Candidate Starts for Ruchi_35:
(Start: 8 @25251 has 15 MA's), (10, 25266), (12, 25275), (13, 25287), (17, 25329), (22, 25392), (23, 25422), (24, 25464),

Gene: TaylorSipht_36 Start: 24624, Stop: 24893, Start Num: 8
Candidate Starts for TaylorSipht_36:
(Start: 8 @24624 has 15 MA's), (10, 24639), (11, 24645), (12, 24648), (14, 24678), (16, 24690), (17, 24702), (21, 24750),

Gene: Vulpecula_35 Start: 24928, Stop: 25197, Start Num: 8
Candidate Starts for Vulpecula_35:
(Start: 8 @24928 has 15 MA's), (12, 24952), (17, 25006), (22, 25069), (23, 25099), (24, 25141),