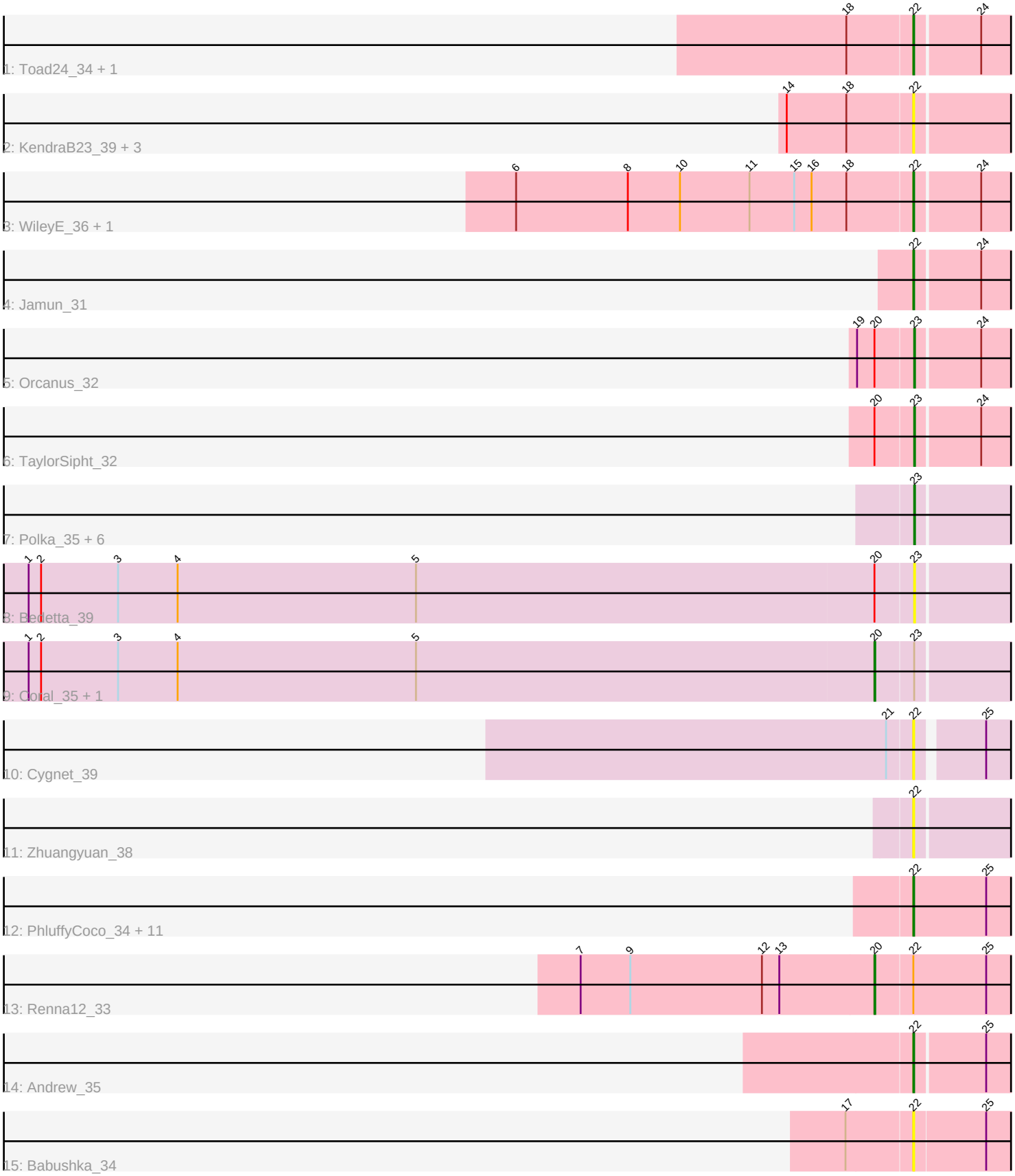
Pham 221579


1: Toad24_34 + 1
18
22
24
2: KendraB23_39 + 3
14
18
22
3: WileyE_36 + 1
6
8
10
11
15
16
18
22
24
4: Jamun_31
22
24
5: Orcanus_32
19
20
23
24
6: TaylorSipht_32
20
23
24
7: Polka_35 + 6
23
8: Bedetta_39
1
2
3
4
5
20
23
9: Coral_35 + 1
1
2
3
4
5
20
23
10: Cygnet_39
21
22
25
11: Zhuangyuan_38
22
12: PhluffyCoco_34 + 11
22
25
13: Renna12_33
7
9
12
13
20
22
25
14: Andrew_35
22
25
15: Babushka_34
17
22
25

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 221579 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221579 has 38 members, 21 are drafts.

Phages represented in each track:
• Track 1 : Toad24_34, Eesa_31
• Track 2 : KendraB23_39, Westrich_37, Gravel_38, Pelletreau_38
• Track 3 : WileyE_36, Chickaboom_33
• Track 4 : Jamun_31
• Track 5 : Orcanus_32
• Track 6 : TaylorSipht_32
• Track 7 : Polka_35, Bibble12_36, HannahPhantana_36, Colusalem_38, Jerole_42, Daob_37, OtsoOtso_39
• Track 8 : Bedetta_39
• Track 9 : Coral_35, Cote_37
• Track 10 : Cygnet_39
• Track 11 : Zhuangyuan_38
• Track 12 : PhluffyCoco_34, AmiCi24_33, Atlantica_34, Leona_33, Juno112_33, RedFox_34, HamCheese_33, KHumphrey_34, Camara_34, Glotell_36, Rattail_34, DanHam62_34
• Track 13 : Renna12_33
• Track 14 : Andrew_35
• Track 15 : Babushka_34

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

The start number called the most often in the published annotations is 22, it was called in 9 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AmiCi24_33, Andrew_35, Atlantica_34, Babushka_34, Camara_34, Chickaboom_33, Cygnet_39, DanHam62_34, Eesa_31, Glotell_36, Gravel_38, HamCheese_33, Jamun_31, Juno112_33, KHumphrey_34, KendraB23_39, Leona_33, Pelletreau_38, PhluffyCoco_34, Rattail_34, RedFox_34, Toad24_34, Westrich_37, WileyE_36, Zhuangyuan_38,

Genes that have the "Most Annotated" start but do not call it:
• Renna12_33,

Genes that do not have the "Most Annotated" start:
• Bedetta_39, Bibble12_36, Colusalem_38, Coral_35, Cote_37, Daob_37, HannahPhantana_36, Jerole_42, Orcanus_32, OtsoOtso_39, Polka_35, TaylorSipht_32,

Summary by start number:

Start 20:
• Found in 6 of 38 (15.8%) of genes in pham
• Manual Annotations of this start: 3 of 17
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Coral_35 (AS2), Cote_37 (AS2), Renna12_33 (AS3),

Start 22:
• Found in 26 of 38 (68.4%) of genes in pham
• Manual Annotations of this start: 9 of 17
• Called 96.2% of time when present
• Phage (with cluster) where this start called: AmiCi24_33 (AS3), Andrew_35 (AS3), Atlantica_34 (AS3), Babushka_34 (AS3), Camara_34 (AS3), Chickaboom_33 (AS1), Cygnet_39 (AS2), DanHam62_34 (AS3), Eesa_31 (AS1), Glotell_36 (AS3), Gravel_38 (AS1), HamCheese_33 (AS3), Jamun_31 (AS1), Juno112_33 (AS3), KHumphrey_34 (AS3), KendraB23_39 (AS1), Leona_33 (AS3), Pelletreau_38 (AS1), PhluffyCoco_34 (AS3), Rattail_34 (AS3), RedFox_34 (AS3), Toad24_34 (AS1), Westrich_37 (AS1), WileyE_36 (AS1), Zhuangyuan_38 (AS2),

Start 23:
• Found in 12 of 38 (31.6%) of genes in pham
• Manual Annotations of this start: 5 of 17
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Bedetta_39 (AS2), Bibble12_36 (AS2), Colusalem_38 (AS2), Daob_37 (AS2), HannahPhantana_36 (AS2), Jerole_42 (AS2), Orcanus_32 (AS1), OtsoOtso_39 (AS2), Polka_35 (AS2), TaylorSipht_32 (AS1),

Summary by clusters:

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

Info for manual annotations of cluster AS1:
•Start number 22 was manually annotated 3 times for cluster AS1.
•Start number 23 was manually annotated 2 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 20 was manually annotated 2 times for cluster AS2.
•Start number 23 was manually annotated 3 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 20 was manually annotated 1 time for cluster AS3.
•Start number 22 was manually annotated 6 times for cluster AS3.

Gene Information:

Gene: AmiCi24_33 Start: 22209, Stop: 22030, Start Num: 22
Candidate Starts for AmiCi24_33:
(Start: 22 @22209 has 9 MA's), (25, 22137),

Gene: Andrew_35 Start: 22183, Stop: 21995, Start Num: 22
Candidate Starts for Andrew_35:
(Start: 22 @22183 has 9 MA's), (25, 22102),

Gene: Atlantica_34 Start: 22211, Stop: 22032, Start Num: 22
Candidate Starts for Atlantica_34:
(Start: 22 @22211 has 9 MA's), (25, 22139),

Gene: Babushka_34 Start: 22143, Stop: 21952, Start Num: 22
Candidate Starts for Babushka_34:
(17, 22221), (Start: 22 @22143 has 9 MA's), (25, 22059),

Gene: Bedetta_39 Start: 22863, Stop: 22681, Start Num: 23
Candidate Starts for Bedetta_39:
(1, 23928), (2, 23913), (3, 23820), (4, 23748), (5, 23460), (Start: 20 @22908 has 3 MA's), (Start: 23 @22863 has 5 MA's),

Gene: Bibble12_36 Start: 22712, Stop: 22530, Start Num: 23
Candidate Starts for Bibble12_36:
(Start: 23 @22712 has 5 MA's),

Gene: Camara_34 Start: 22213, Stop: 22034, Start Num: 22
Candidate Starts for Camara_34:
(Start: 22 @22213 has 9 MA's), (25, 22141),

Gene: Chickaboom_33 Start: 22527, Stop: 22345, Start Num: 22
Candidate Starts for Chickaboom_33:
(6, 23004), (8, 22869), (10, 22806), (11, 22722), (15, 22668), (16, 22647), (18, 22605), (Start: 22 @22527 has 9 MA's), (24, 22452),

Gene: Colusalem_38 Start: 22693, Stop: 22511, Start Num: 23
Candidate Starts for Colusalem_38:
(Start: 23 @22693 has 5 MA's),

Gene: Coral_35 Start: 22609, Stop: 22382, Start Num: 20
Candidate Starts for Coral_35:
(1, 23629), (2, 23614), (3, 23521), (4, 23449), (5, 23161), (Start: 20 @22609 has 3 MA's), (Start: 23 @22564 has 5 MA's),

Gene: Cote_37 Start: 23086, Stop: 22859, Start Num: 20
Candidate Starts for Cote_37:
(1, 24106), (2, 24091), (3, 23998), (4, 23926), (5, 23638), (Start: 20 @23086 has 3 MA's), (Start: 23 @23041 has 5 MA's),

Gene: Cygnet_39 Start: 23502, Stop: 23323, Start Num: 22
Candidate Starts for Cygnet_39:
(21, 23532), (Start: 22 @23502 has 9 MA's), (25, 23430),

Gene: DanHam62_34 Start: 22210, Stop: 22031, Start Num: 22

Candidate Starts for DanHam62_34:
(Start: 22 @22210 has 9 MA's), (25, 22138),

Gene: Daob_37 Start: 23050, Stop: 22868, Start Num: 23
Candidate Starts for Daob_37:
(Start: 23 @23050 has 5 MA's),

Gene: Eesa_31 Start: 23331, Stop: 23149, Start Num: 22
Candidate Starts for Eesa_31:
(18, 23409), (Start: 22 @23331 has 9 MA's), (24, 23256),

Gene: Glotell_36 Start: 22369, Stop: 22190, Start Num: 22
Candidate Starts for Glotell_36:
(Start: 22 @22369 has 9 MA's), (25, 22297),

Gene: Gravel_38 Start: 23301, Stop: 23119, Start Num: 22
Candidate Starts for Gravel_38:
(14, 23451), (18, 23379), (Start: 22 @23301 has 9 MA's),

Gene: HamCheese_33 Start: 22197, Stop: 22018, Start Num: 22
Candidate Starts for HamCheese_33:
(Start: 22 @22197 has 9 MA's), (25, 22125),

Gene: HannahPhantana_36 Start: 22712, Stop: 22530, Start Num: 23
Candidate Starts for HannahPhantana_36:
(Start: 23 @22712 has 5 MA's),

Gene: Jamun_31 Start: 22438, Stop: 22256, Start Num: 22
Candidate Starts for Jamun_31:
(Start: 22 @22438 has 9 MA's), (24, 22363),

Gene: Jerole_42 Start: 22835, Stop: 22653, Start Num: 23
Candidate Starts for Jerole_42:
(Start: 23 @22835 has 5 MA's),

Gene: Juno112_33 Start: 22213, Stop: 22034, Start Num: 22
Candidate Starts for Juno112_33:
(Start: 22 @22213 has 9 MA's), (25, 22141),

Gene: KHumphrey_34 Start: 22212, Stop: 22033, Start Num: 22
Candidate Starts for KHumphrey_34:
(Start: 22 @22212 has 9 MA's), (25, 22140),

Gene: KendraB23_39 Start: 23489, Stop: 23307, Start Num: 22
Candidate Starts for KendraB23_39:
(14, 23639), (18, 23567), (Start: 22 @23489 has 9 MA's),

Gene: Leona_33 Start: 22280, Stop: 22101, Start Num: 22
Candidate Starts for Leona_33:
(Start: 22 @22280 has 9 MA's), (25, 22208),

Gene: Orcanus_32 Start: 23008, Stop: 22826, Start Num: 23
Candidate Starts for Orcanus_32:

(19, 23074), (Start: 20 @23053 has 3 MA's), (Start: 23 @23008 has 5 MA's), (24, 22933),

Gene: OtsoOtso_39 Start: 22566, Stop: 22384, Start Num: 23
Candidate Starts for OtsoOtso_39:
(Start: 23 @22566 has 5 MA's),

Gene: Pelletreau_38 Start: 23301, Stop: 23119, Start Num: 22
Candidate Starts for Pelletreau_38:
(14, 23451), (18, 23379), (Start: 22 @23301 has 9 MA's),

Gene: PhluffyCoco_34 Start: 22210, Stop: 22016, Start Num: 22
Candidate Starts for PhluffyCoco_34:
(Start: 22 @22210 has 9 MA's), (25, 22123),

Gene: Polka_35 Start: 22566, Stop: 22384, Start Num: 23
Candidate Starts for Polka_35:
(Start: 23 @22566 has 5 MA's),

Gene: Rattail_34 Start: 22294, Stop: 22115, Start Num: 22
Candidate Starts for Rattail_34:
(Start: 22 @22294 has 9 MA's), (25, 22222),

Gene: RedFox_34 Start: 22209, Stop: 22030, Start Num: 22
Candidate Starts for RedFox_34:
(Start: 22 @22209 has 9 MA's), (25, 22137),

Gene: Renna12_33 Start: 22293, Stop: 22057, Start Num: 20
Candidate Starts for Renna12_33:
(7, 22647), (9, 22587), (12, 22428), (13, 22407), (Start: 20 @22293 has 3 MA's), (Start: 22 @22251 has 9 MA's), (25, 22164),

Gene: TaylorSipht_32 Start: 22421, Stop: 22239, Start Num: 23
Candidate Starts for TaylorSipht_32:
(Start: 20 @22466 has 3 MA's), (Start: 23 @22421 has 5 MA's), (24, 22346),

Gene: Toad24_34 Start: 23550, Stop: 23368, Start Num: 22
Candidate Starts for Toad24_34:
(18, 23628), (Start: 22 @23550 has 9 MA's), (24, 23475),

Gene: Westrich_37 Start: 23225, Stop: 23043, Start Num: 22
Candidate Starts for Westrich_37:
(14, 23375), (18, 23303), (Start: 22 @23225 has 9 MA's),

Gene: WileyE_36 Start: 22527, Stop: 22345, Start Num: 22
Candidate Starts for WileyE_36:
(6, 23004), (8, 22869), (10, 22806), (11, 22722), (15, 22668), (16, 22647), (18, 22605), (Start: 22 @22527 has 9 MA's), (24, 22452),

Gene: Zhuangyuan_38 Start: 23402, Stop: 23214, Start Num: 22
Candidate Starts for Zhuangyuan_38:
(Start: 22 @23402 has 9 MA's),