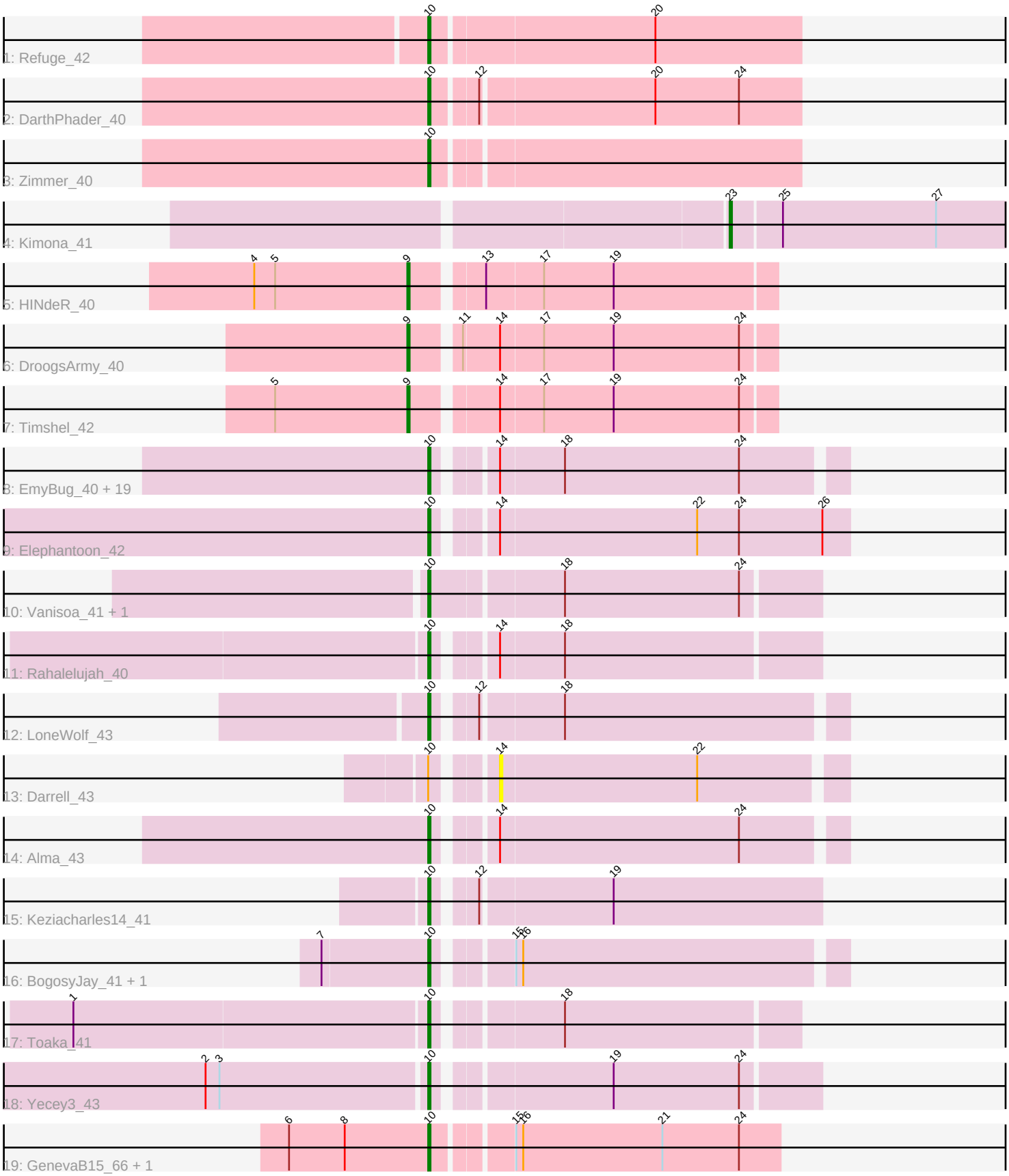
Pham 85938


1: Refuge_42
2: DarthPhader_40
3: Zimmer_40
4: Kimona_41
5: HINdeR_40
6: DroogsArmy_40
7: Timshel_42
8: EmyBug_40 + 19
9: Elephantoon_42
10: Vanisoa_41 + 1
11: Rahalelujah_40
12: LoneWolf_43
13: Darrell_43
14: Alma_43
15: Keziacharles14_41
16: BogosyJay_41 + 1
17: Toaka_41
18: Yecey3_43
19: GenevaB15_66 + 1

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 85938 Report

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

Pham number 85938 has 41 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Refuge_42
• Track 2 : DarthPhader_40
• Track 3 : Zimmer_40
• Track 4 : Kimona_41
• Track 5 : HINdeR_40
• Track 6 : DroogsArmy_40
• Track 7 : Timshel_42
• Track 8 : EmyBug_40, Qobbit_43, Tubs_43, ExplosioNervosa_43, HortumSL17_43, Scherzo_43, Eidsmoe_43, Phaeder_43, Conquerage_43, PackMan_42, Pioneer_43, Aliter_43, Spouty_41, Fayely_43, Myxus_43, Catalina_44, Priya_43, Ugenie5_40, Beemo_43, Phonnegut_43
• Track 9 : Elephantoon_42
• Track 10 : Vanisoa_41, Arissanae_41
• Track 11 : Rahalelujah_40
• Track 12 : LoneWolf_43
• Track 13 : Darrell_43
• Track 14 : Alma_43
• Track 15 : Keziacharles14_41
• Track 16 : BogosyJay_41, Maminiaina_41
• Track 17 : Toaka_41
• Track 18 : Yecey3_43
• Track 19 : GenevaB15_66, Aziz_65

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 34 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aliter_43, Alma_43, Arissanae_41, Aziz_65, Beemo_43, BogosyJay_41, Catalina_44, Conquerage_43, DarthPhader_40, Eidsmoe_43, Elephantoon_42, EmyBug_40, ExplosioNervosa_43, Fayely_43, GenevaB15_66, HortumSL17_43, Keziacharles14_41, LoneWolf_43, Maminiaina_41, Myxus_43, PackMan_42, Phaeder_43, Phonnegut_43, Pioneer_43, Priya_43, Qobbit_43, Rahalelujah_40,

Refuge_42, Scherzo_43, Spouty_41, Toaka_41, Tubs_43, Ugenie5_40, Vanisoa_41, Yecey3_43, Zimmer_40,

Genes that have the "Most Annotated" start but do not call it:
• Darrell_43,

Genes that do not have the "Most Annotated" start:
• DroogsArmy_40, HINdeR_40, Kimona_41, Timshel_42,

Summary by start number:

Start 9:
• Found in 3 of 41 (7.3%) of genes in pham
• Manual Annotations of this start: 3 of 38
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DroogsArmy_40 (A7), HINdeR_40 (A7), Timshel_42 (A7),

Start 10:
• Found in 37 of 41 (90.2%) of genes in pham
• Manual Annotations of this start: 34 of 38
• Called 97.3% of time when present
• Phage (with cluster) where this start called: Aliter_43 (A9), Alma_43 (A9), Arissanae_41 (A9), Aziz_65 (M2), Beemo_43 (A9), BogosyJay_41 (A9), Catalina_44 (A9), Conquerage_43 (A9), DarthPhader_40 (A12), Eidsmoe_43 (A9), Elephantoon_42 (A9), EmyBug_40 (A9), ExplosioNervosa_43 (A9), Fayely_43 (A9), GenevaB15_66 (M2), HortumSL17_43 (A9), Keziacharles14_41 (A9), LoneWolf_43 (A9), Maminiaina_41 (A9), Myxus_43 (A9), PackMan_42 (A9), Phaeder_43 (A9), Phonnegut_43 (A9), Pioneer_43 (A9), Priya_43 (A9), Qobbit_43 (A9), Rahalelujah_40 (A9), Refuge_42 (A12), Scherzo_43 (A9), Spouty_41 (A9), Toaka_41 (A9), Tubs_43 (A9), Ugenie5_40 (A9), Vanisoa_41 (A9), Yecey3_43 (A9), Zimmer_40 (A12),

Start 14:
• Found in 26 of 41 (63.4%) of genes in pham
• No Manual Annotations of this start.
• Called 3.8% of time when present
• Phage (with cluster) where this start called: Darrell_43 (A9),

Start 23:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 38
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kimona_41 (A19),

Summary by clusters:

There are 5 clusters represented in this pham: A9, M2, A19, A7, A12,

Info for manual annotations of cluster A12:
•Start number 10 was manually annotated 3 times for cluster A12.

Info for manual annotations of cluster A19:

•Start number 23 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A7:
•Start number 9 was manually annotated 3 times for cluster A7.

Info for manual annotations of cluster A9:
•Start number 10 was manually annotated 29 times for cluster A9.

Info for manual annotations of cluster M2:
•Start number 10 was manually annotated 2 times for cluster M2.

Gene Information:

Gene: Aliter_43 Start: 29348, Stop: 29184, Start Num: 10
Candidate Starts for Aliter_43:
(Start: 10 @29348 has 34 MA's), (14, 29327), (18, 29300), (24, 29225),

Gene: Alma_43 Start: 29432, Stop: 29268, Start Num: 10
Candidate Starts for Alma_43:
(Start: 10 @29432 has 34 MA's), (14, 29411), (24, 29309),

Gene: Arissanae_41 Start: 29701, Stop: 29540, Start Num: 10
Candidate Starts for Arissanae_41:
(Start: 10 @29701 has 34 MA's), (18, 29647), (24, 29572),

Gene: Aziz_65 Start: 43279, Stop: 43422, Start Num: 10
Candidate Starts for Aziz_65:
(6, 43219), (8, 43243), (Start: 10 @43279 has 34 MA's), (15, 43309), (16, 43312), (21, 43372), (24, 43405),

Gene: Beemo_43 Start: 29476, Stop: 29312, Start Num: 10
Candidate Starts for Beemo_43:
(Start: 10 @29476 has 34 MA's), (14, 29455), (18, 29428), (24, 29353),

Gene: BogosyJay_41 Start: 29019, Stop: 28855, Start Num: 10
Candidate Starts for BogosyJay_41:
(7, 29064), (Start: 10 @29019 has 34 MA's), (15, 28992), (16, 28989),

Gene: Catalina_44 Start: 29421, Stop: 29257, Start Num: 10
Candidate Starts for Catalina_44:
(Start: 10 @29421 has 34 MA's), (14, 29400), (18, 29373), (24, 29298),

Gene: Conquerage_43 Start: 29450, Stop: 29286, Start Num: 10
Candidate Starts for Conquerage_43:
(Start: 10 @29450 has 34 MA's), (14, 29429), (18, 29402), (24, 29327),

Gene: Darrell_43 Start: 29769, Stop: 29626, Start Num: 14
Candidate Starts for Darrell_43:
(Start: 10 @29790 has 34 MA's), (14, 29769), (22, 29685),

Gene: DarthPhader_40 Start: 30166, Stop: 30014, Start Num: 10

Candidate Starts for DarthPhader_40:
(Start: 10 @30166 has 34 MA's), (12, 30148), (20, 30076), (24, 30040),

Gene: DroogsArmy_40 Start: 31224, Stop: 31075, Start Num: 9
Candidate Starts for DroogsArmy_40:
(Start: 9 @31224 has 3 MA's), (11, 31206), (14, 31191), (17, 31173), (19, 31143), (24, 31089),

Gene: Eidsmoe_43 Start: 29484, Stop: 29320, Start Num: 10
Candidate Starts for Eidsmoe_43:
(Start: 10 @29484 has 34 MA's), (14, 29463), (18, 29436), (24, 29361),

Gene: Elephantoon_42 Start: 28767, Stop: 28597, Start Num: 10
Candidate Starts for Elephantoon_42:
(Start: 10 @28767 has 34 MA's), (14, 28746), (22, 28662), (24, 28644), (26, 28608),

Gene: EmyBug_40 Start: 29486, Stop: 29322, Start Num: 10
Candidate Starts for EmyBug_40:
(Start: 10 @29486 has 34 MA's), (14, 29465), (18, 29438), (24, 29363),

Gene: ExplosioNervosa_43 Start: 29510, Stop: 29346, Start Num: 10
Candidate Starts for ExplosioNervosa_43:
(Start: 10 @29510 has 34 MA's), (14, 29489), (18, 29462), (24, 29387),

Gene: Fayely_43 Start: 29453, Stop: 29289, Start Num: 10
Candidate Starts for Fayely_43:
(Start: 10 @29453 has 34 MA's), (14, 29432), (18, 29405), (24, 29330),

Gene: GenevaB15_66 Start: 43279, Stop: 43422, Start Num: 10
Candidate Starts for GenevaB15_66:
(6, 43219), (8, 43243), (Start: 10 @43279 has 34 MA's), (15, 43309), (16, 43312), (21, 43372), (24, 43405),

Gene: HINdeR_40 Start: 31050, Stop: 30901, Start Num: 9
Candidate Starts for HINdeR_40:
(4, 31116), (5, 31107), (Start: 9 @31050 has 3 MA's), (13, 31023), (17, 30999), (19, 30969),

Gene: HortumSL17_43 Start: 29420, Stop: 29256, Start Num: 10
Candidate Starts for HortumSL17_43:
(Start: 10 @29420 has 34 MA's), (14, 29399), (18, 29372), (24, 29297),

Gene: Keziacharles14_41 Start: 29939, Stop: 29781, Start Num: 10
Candidate Starts for Keziacharles14_41:
(Start: 10 @29939 has 34 MA's), (12, 29924), (19, 29870),

Gene: Kimona_41 Start: 27599, Stop: 27462, Start Num: 23
Candidate Starts for Kimona_41:
(Start: 23 @27599 has 1 MA's), (25, 27578), (27, 27512),

Gene: LoneWolf_43 Start: 29241, Stop: 29077, Start Num: 10
Candidate Starts for LoneWolf_43:
(Start: 10 @29241 has 34 MA's), (12, 29226), (18, 29193),

Gene: Maminiaina_41 Start: 29001, Stop: 28837, Start Num: 10

Candidate Starts for Maminiaina_41:
(7, 29046), (Start: 10 @29001 has 34 MA's), (15, 28974), (16, 28971),

Gene: Myxus_43 Start: 29420, Stop: 29256, Start Num: 10
Candidate Starts for Myxus_43:
(Start: 10 @29420 has 34 MA's), (14, 29399), (18, 29372), (24, 29297),

Gene: PackMan_42 Start: 29420, Stop: 29256, Start Num: 10
Candidate Starts for PackMan_42:
(Start: 10 @29420 has 34 MA's), (14, 29399), (18, 29372), (24, 29297),

Gene: Phaeder_43 Start: 29420, Stop: 29256, Start Num: 10
Candidate Starts for Phaeder_43:
(Start: 10 @29420 has 34 MA's), (14, 29399), (18, 29372), (24, 29297),

Gene: Phonnegut_43 Start: 29475, Stop: 29311, Start Num: 10
Candidate Starts for Phonnegut_43:
(Start: 10 @29475 has 34 MA's), (14, 29454), (18, 29427), (24, 29352),

Gene: Pioneer_43 Start: 29475, Stop: 29311, Start Num: 10
Candidate Starts for Pioneer_43:
(Start: 10 @29475 has 34 MA's), (14, 29454), (18, 29427), (24, 29352),

Gene: Priya_43 Start: 29487, Stop: 29323, Start Num: 10
Candidate Starts for Priya_43:
(Start: 10 @29487 has 34 MA's), (14, 29466), (18, 29439), (24, 29364),

Gene: Qobbit_43 Start: 29449, Stop: 29285, Start Num: 10
Candidate Starts for Qobbit_43:
(Start: 10 @29449 has 34 MA's), (14, 29428), (18, 29401), (24, 29326),

Gene: Rahalelujah_40 Start: 28267, Stop: 28112, Start Num: 10
Candidate Starts for Rahalelujah_40:
(Start: 10 @28267 has 34 MA's), (14, 28246), (18, 28219),

Gene: Refuge_42 Start: 30544, Stop: 30389, Start Num: 10
Candidate Starts for Refuge_42:
(Start: 10 @30544 has 34 MA's), (20, 30451),

Gene: Scherzo_43 Start: 29664, Stop: 29500, Start Num: 10
Candidate Starts for Scherzo_43:
(Start: 10 @29664 has 34 MA's), (14, 29643), (18, 29616), (24, 29541),

Gene: Spouty_41 Start: 29486, Stop: 29322, Start Num: 10
Candidate Starts for Spouty_41:
(Start: 10 @29486 has 34 MA's), (14, 29465), (18, 29438), (24, 29363),

Gene: Timshel_42 Start: 31481, Stop: 31332, Start Num: 9
Candidate Starts for Timshel_42:
(5, 31538), (Start: 9 @31481 has 3 MA's), (14, 31448), (17, 31430), (19, 31400), (24, 31346),

Gene: Toaka_41 Start: 28759, Stop: 28613, Start Num: 10
Candidate Starts for Toaka_41:

(1, 28909), (Start: 10 @28759 has 34 MA's), (18, 28711),

Gene: Tubs_43 Start: 29420, Stop: 29256, Start Num: 10
Candidate Starts for Tubs_43:
(Start: 10 @29420 has 34 MA's), (14, 29399), (18, 29372), (24, 29297),

Gene: Ugenie5_40 Start: 29663, Stop: 29499, Start Num: 10
Candidate Starts for Ugenie5_40:
(Start: 10 @29663 has 34 MA's), (14, 29642), (18, 29615), (24, 29540),

Gene: Vanisoa_41 Start: 29706, Stop: 29545, Start Num: 10
Candidate Starts for Vanisoa_41:
(Start: 10 @29706 has 34 MA's), (18, 29652), (24, 29577),

Gene: Yecey3_43 Start: 28664, Stop: 28509, Start Num: 10
Candidate Starts for Yecey3_43:
(2, 28757), (3, 28751), (Start: 10 @28664 has 34 MA's), (19, 28595), (24, 28541),

Gene: Zimmer_40 Start: 30029, Stop: 29877, Start Num: 10
Candidate Starts for Zimmer_40:
(Start: 10 @30029 has 34 MA's),