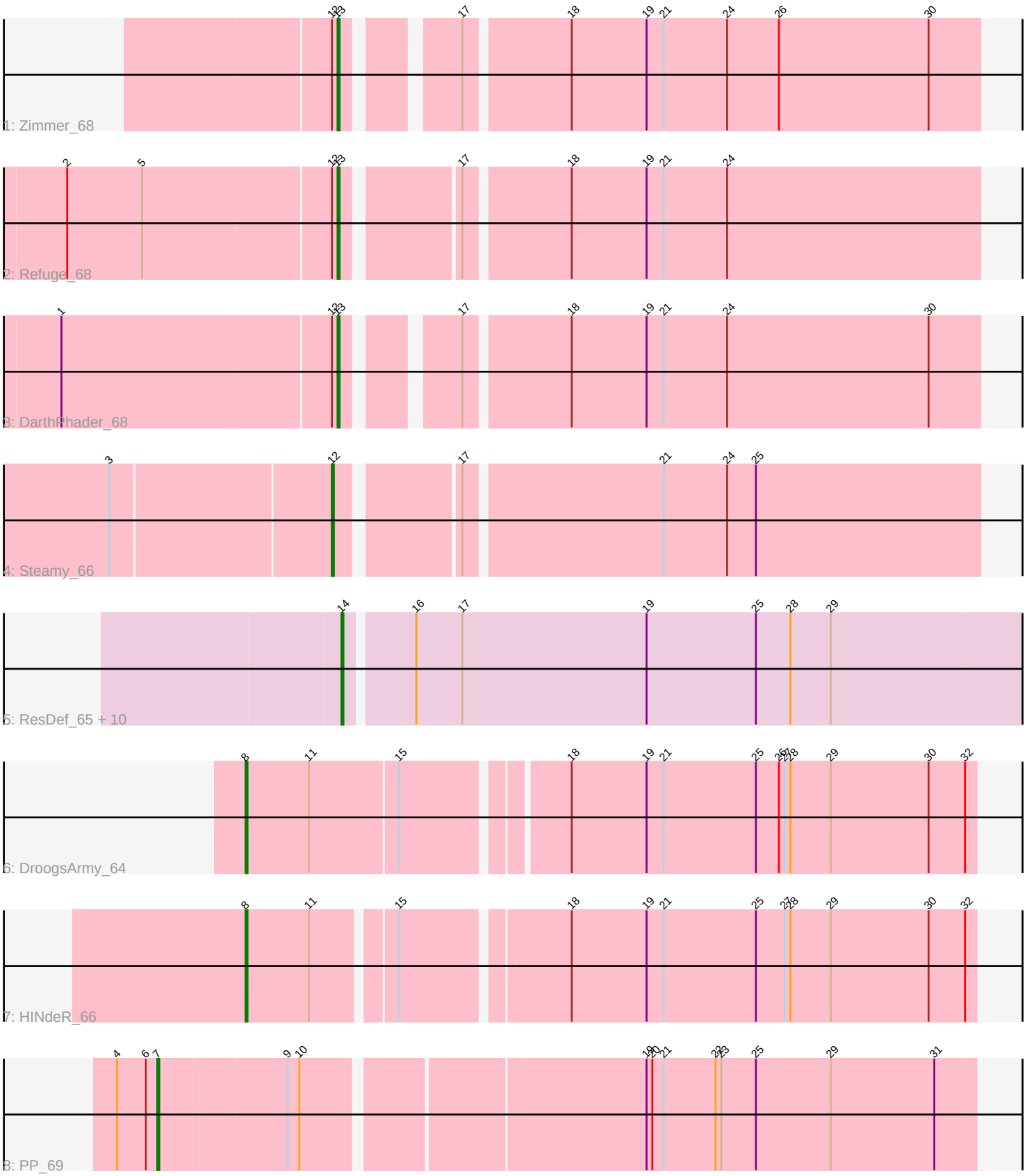
Pham 331316


1: Zimmer_68
2: Refuge_68
3: DarthPhader_68
4: Steamy_66
5: ResDef_65 + 10
6: DroogsArmy_64
7: HINdeR_66
8: PP_69

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 331316 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331316 has 18 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Zimmer_68
• Track 2 : Refuge_68
• Track 3 : DarthPhader_68
• Track 4 : Steamy_66
• Track 5 : ResDef_65, Hookmount_67, EtoileNova_65, Popcicle_67, Norbert_63, Veracruz_64, Margo_67, Pocahontas_66, QuinnKiro_66, Panamaxus_65, Todacoro_67
• Track 6 : DroogsArmy_64
• Track 7 : HINdeR_66
• Track 8 : PP_69

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

The start number called the most often in the published annotations is 14, it was called in 10 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• EtoileNova_65, Hookmount_67, Margo_67, Norbert_63, Panamaxus_65, Pocahontas_66, Popcicle_67, QuinnKiro_66, ResDef_65, Todacoro_67, Veracruz_64,

Genes that have the "Most Annotated" start but do not call it:
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Genes that do not have the "Most Annotated" start:
• DarthPhader_68, DroogsArmy_64, HINdeR_66, PP_69, Refuge_68, Steamy_66, Zimmer_68,

Summary by start number:

Start 7:
• Found in 1 of 18 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present

• Phage (with cluster) where this start called: PP_69 (A7),

Start 8:
• Found in 2 of 18 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DroogsArmy_64 (A7), HINdeR_66 (A7),

Start 12:
• Found in 4 of 18 (22.2%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Steamy_66 (A12),

Start 13:
• Found in 3 of 18 (16.7%) of genes in pham
• Manual Annotations of this start: 3 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DarthPhader_68 (A12), Refuge_68 (A12), Zimmer_68 (A12),

Start 14:
• Found in 11 of 18 (61.1%) of genes in pham
• Manual Annotations of this start: 10 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EtoileNova_65 (A3), Hookmount_67 (A3), Margo_67 (A3), Norbert_63 (A3), Panamaxus_65 (A3), Pocahontas_66 (A3), Popcicle_67 (A3), QuinnKiro_66 (A3), ResDef_65 (A3), Todacoro_67 (A3), Veracruz_64 (A3),

Summary by clusters:

There are 3 clusters represented in this pham: A3, A7, A12,

Info for manual annotations of cluster A12:
•Start number 12 was manually annotated 1 time for cluster A12.
•Start number 13 was manually annotated 3 times for cluster A12.

Info for manual annotations of cluster A3:
•Start number 14 was manually annotated 10 times for cluster A3.

Info for manual annotations of cluster A7:
•Start number 7 was manually annotated 1 time for cluster A7.
•Start number 8 was manually annotated 2 times for cluster A7.

Gene Information:

Gene: DarthPhader_68 Start: 43667, Stop: 43356, Start Num: 13
Candidate Starts for DarthPhader_68:
(1, 43808), (Start: 12 @43670 has 1 MA's), (Start: 13 @43667 has 3 MA's), (17, 43619), (18, 43568), (19, 43529), (21, 43520), (24, 43487), (30, 43382),

Gene: DroogsArmy_64 Start: 45309, Stop: 44944, Start Num: 8
Candidate Starts for DroogsArmy_64:
(Start: 8 @45309 has 2 MA's), (11, 45276), (15, 45231), (18, 45153), (19, 45114), (21, 45105), (25, 45057), (26, 45045), (27, 45042), (28, 45039), (29, 45018), (30, 44967), (32, 44949),

Gene: EtoileNova_65 Start: 42164, Stop: 41793, Start Num: 14
Candidate Starts for EtoileNova_65:
(Start: 14 @42164 has 10 MA's), (16, 42131), (17, 42107), (19, 42011), (25, 41954), (28, 41936), (29, 41915),

Gene: HINdeR_66 Start: 44898, Stop: 44536, Start Num: 8
Candidate Starts for HINdeR_66:
(Start: 8 @44898 has 2 MA's), (11, 44865), (15, 44826), (18, 44745), (19, 44706), (21, 44697), (25, 44649), (27, 44634), (28, 44631), (29, 44610), (30, 44559), (32, 44541),

Gene: Hookmount_67 Start: 42161, Stop: 41790, Start Num: 14
Candidate Starts for Hookmount_67:
(Start: 14 @42161 has 10 MA's), (16, 42128), (17, 42104), (19, 42008), (25, 41951), (28, 41933), (29, 41912),

Gene: Margo_67 Start: 42186, Stop: 41815, Start Num: 14
Candidate Starts for Margo_67:
(Start: 14 @42186 has 10 MA's), (16, 42153), (17, 42129), (19, 42033), (25, 41976), (28, 41958), (29, 41937),

Gene: Norbert_63 Start: 42160, Stop: 41789, Start Num: 14
Candidate Starts for Norbert_63:
(Start: 14 @42160 has 10 MA's), (16, 42127), (17, 42103), (19, 42007), (25, 41950), (28, 41932), (29, 41911),

Gene: PP_69 Start: 46873, Stop: 46463, Start Num: 7
Candidate Starts for PP_69:
(4, 46894), (6, 46879), (Start: 7 @46873 has 1 MA's), (9, 46807), (10, 46801), (19, 46633), (20, 46630), (21, 46624), (22, 46597), (23, 46594), (25, 46576), (29, 46537), (31, 46483),

Gene: Panamaxus_65 Start: 42160, Stop: 41789, Start Num: 14
Candidate Starts for Panamaxus_65:
(Start: 14 @42160 has 10 MA's), (16, 42127), (17, 42103), (19, 42007), (25, 41950), (28, 41932), (29, 41911),

Gene: Pocahontas_66 Start: 42157, Stop: 41786, Start Num: 14
Candidate Starts for Pocahontas_66:
(Start: 14 @42157 has 10 MA's), (16, 42124), (17, 42100), (19, 42004), (25, 41947), (28, 41929), (29, 41908),

Gene: Popcicle_67 Start: 42157, Stop: 41786, Start Num: 14
Candidate Starts for Popcicle_67:
(Start: 14 @42157 has 10 MA's), (16, 42124), (17, 42100), (19, 42004), (25, 41947), (28, 41929), (29, 41908),

Gene: QuinnKiro_66 Start: 42160, Stop: 41789, Start Num: 14
Candidate Starts for QuinnKiro_66:

(Start: 14 @42160 has 10 MA's), (16, 42127), (17, 42103), (19, 42007), (25, 41950), (28, 41932), (29, 41911),

Gene: Refuge_68 Start: 43722, Stop: 43405, Start Num: 13
Candidate Starts for Refuge_68:
(2, 43860), (5, 43821), (Start: 12 @43725 has 1 MA's), (Start: 13 @43722 has 3 MA's), (17, 43668), (18, 43617), (19, 43578), (21, 43569), (24, 43536),

Gene: ResDef_65 Start: 42160, Stop: 41789, Start Num: 14
Candidate Starts for ResDef_65:
(Start: 14 @42160 has 10 MA's), (16, 42127), (17, 42103), (19, 42007), (25, 41950), (28, 41932), (29, 41911),

Gene: Steamy_66 Start: 42070, Stop: 41750, Start Num: 12
Candidate Starts for Steamy_66:
(3, 42181), (Start: 12 @42070 has 1 MA's), (17, 42013), (21, 41914), (24, 41881), (25, 41866),

Gene: Todacoro_67 Start: 42160, Stop: 41789, Start Num: 14
Candidate Starts for Todacoro_67:
(Start: 14 @42160 has 10 MA's), (16, 42127), (17, 42103), (19, 42007), (25, 41950), (28, 41932), (29, 41911),

Gene: Veracruz_64 Start: 42160, Stop: 41789, Start Num: 14
Candidate Starts for Veracruz_64:
(Start: 14 @42160 has 10 MA's), (16, 42127), (17, 42103), (19, 42007), (25, 41950), (28, 41932), (29, 41911),

Gene: Zimmer_68 Start: 43433, Stop: 43122, Start Num: 13
Candidate Starts for Zimmer_68:
(Start: 12 @43436 has 1 MA's), (Start: 13 @43433 has 3 MA's), (17, 43385), (18, 43334), (19, 43295), (21, 43286), (24, 43253), (26, 43226), (30, 43148),