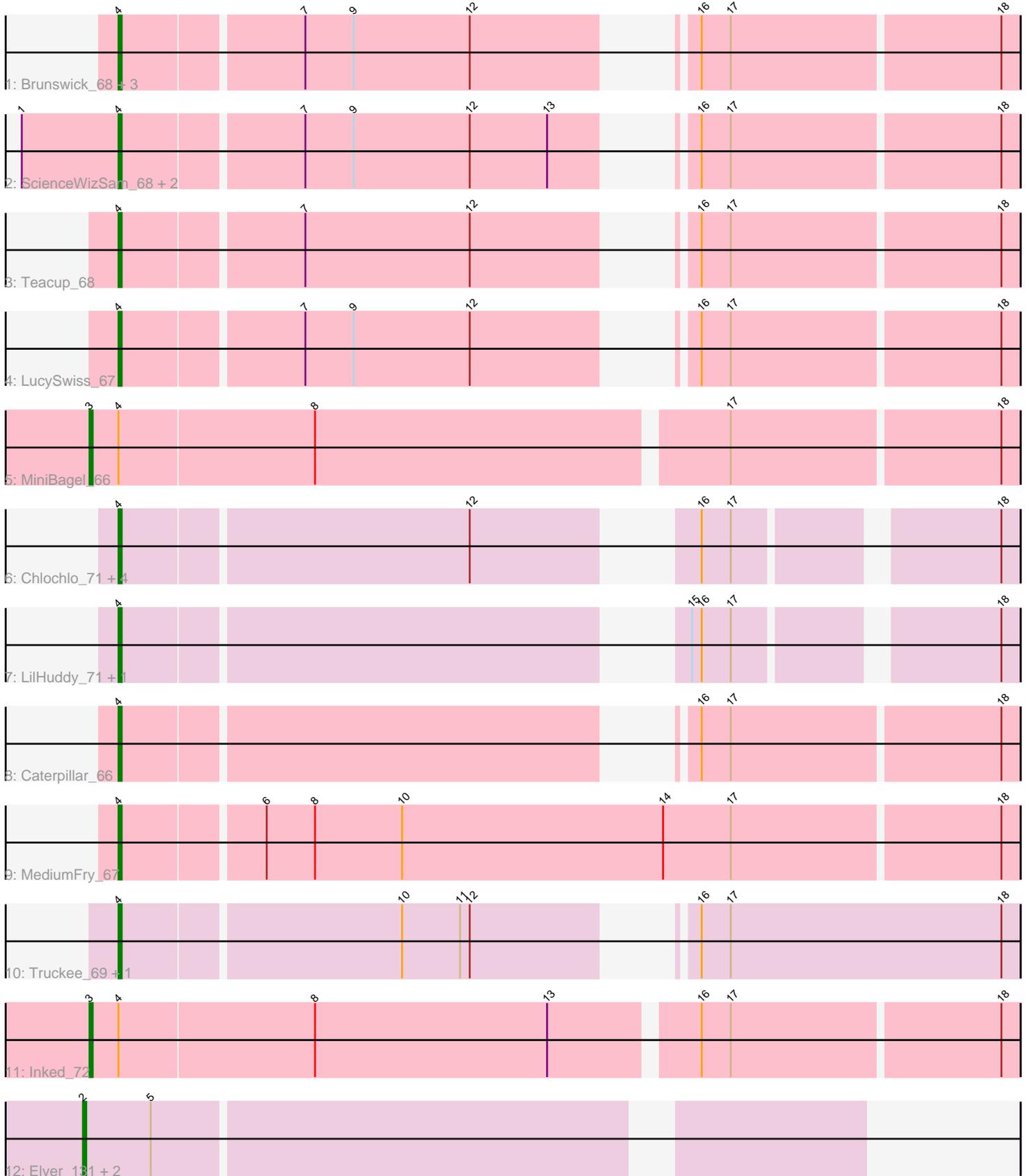# Pham 284123

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 284123 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284123 has 25 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Brunswick_68, Niktson_67, ElephantMan_67, Tenno_67
• Track 2 : ScienceWizSam_68, AreFloNak_71, Nightmare_68
• Track 3 : Teacup_68
• Track 4 : LucySwiss_67
• Track 5 : MiniBagel_66
• Track 6 : Chlochlo_71, Bouchard_71, Giantsbane_70, Phaby_72, Tokki_76
• Track 7 : LilHuddy_71, Shepard_72
• Track 8 : Caterpillar_66
• Track 9 : MediumFry_67
• Track 10 : Truckee_69, Makai_71
• Track 11 : Inked_72
• Track 12 : Elver_131, Paella_131, Qui_131

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

The start number called the most often in the published annotations is 4, it was called in 19 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AreFloNak_71, Bouchard_71, Brunswick_68, Caterpillar_66, Chlochlo_71, ElephantMan_67, Giantsbane_70, LilHuddy_71, LucySwiss_67, Makai_71, MediumFry_67, Nightmare_68, Niktson_67, Phaby_72, ScienceWizSam_68, Shepard_72, Teacup_68, Tenno_67, Tokki_76, Truckee_69,

Genes that have the "Most Annotated" start but do not call it:
• Inked_72, MiniBagel_66,

Genes that do not have the "Most Annotated" start:
• Elver_131, Paella_131, Qui_131,

Summary by start number:

Start 2:
• Found in 3 of 25 (12.0%) 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: Elver_131 (FK), Paella_131 (FK), Qui_131 (FK),

Start 3:
• Found in 2 of 25 (8.0%) 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: Inked_72 (AU7), MiniBagel_66 (AU1),

Start 4:
• Found in 22 of 25 (88.0%) of genes in pham
• Manual Annotations of this start: 19 of 24
• Called 90.9% of time when present
• Phage (with cluster) where this start called: AreFloNak_71 (AU1), Bouchard_71 (AU2), Brunswick_68 (AU1), Caterpillar_66 (AU4), Chlochlo_71 (AU2), ElephantMan_67 (AU1), Giantsbane_70 (AU2), LilHuddy_71 (AU2), LucySwiss_67 (AU1), Makai_71 (AU5), MediumFry_67 (AU4), Nightmare_68 (AU1), Niktson_67 (AU1), Phaby_72 (AU2), ScienceWizSam_68 (AU1), Shepard_72 (AU2), Teacup_68 (AU1), Tenno_67 (AU1), Tokki_76 (AU2), Truckee_69 (AU5),

Summary by clusters:

There are 6 clusters represented in this pham: AU1, AU2, AU5, AU4, AU7, FK,

Info for manual annotations of cluster AU1:
•Start number 3 was manually annotated 1 time for cluster AU1.
•Start number 4 was manually annotated 8 times for cluster AU1.

Info for manual annotations of cluster AU2:
•Start number 4 was manually annotated 7 times for cluster AU2.

Info for manual annotations of cluster AU4:
•Start number 4 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU5:
•Start number 4 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU7:
•Start number 3 was manually annotated 1 time for cluster AU7.

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

Gene Information:
Gene: AreFloNak_71 Start: 46101, Stop: 46346, Start Num: 4
Candidate Starts for AreFloNak_71:
(1, 46071), (Start: 4 @46101 has 19 MA's), (7, 46155), (9, 46170), (12, 46206), (13, 46230), (16, 46251), (17, 46260), (18, 46341),

Gene: Bouchard_71 Start: 46714, Stop: 46953, Start Num: 4
Candidate Starts for Bouchard_71:
(Start: 4 @46714 has 19 MA's), (12, 46819), (16, 46867), (17, 46876), (18, 46948),

Gene: Brunswick_68 Start: 45935, Stop: 46180, Start Num: 4
Candidate Starts for Brunswick_68:
(Start: 4 @45935 has 19 MA's), (7, 45989), (9, 46004), (12, 46040), (16, 46085), (17, 46094), (18, 46175),

Gene: Caterpillar_66 Start: 45537, Stop: 45782, Start Num: 4
Candidate Starts for Caterpillar_66:
(Start: 4 @45537 has 19 MA's), (16, 45687), (17, 45696), (18, 45777),

Gene: Chlochlo_71 Start: 46241, Stop: 46480, Start Num: 4
Candidate Starts for Chlochlo_71:
(Start: 4 @46241 has 19 MA's), (12, 46346), (16, 46394), (17, 46403), (18, 46475),

Gene: ElephantMan_67 Start: 46565, Stop: 46810, Start Num: 4
Candidate Starts for ElephantMan_67:
(Start: 4 @46565 has 19 MA's), (7, 46619), (9, 46634), (12, 46670), (16, 46715), (17, 46724), (18, 46805),

Gene: Elver_131 Start: 70461, Stop: 70685, Start Num: 2
Candidate Starts for Elver_131:
(Start: 2 @70461 has 3 MA's), (5, 70482),

Gene: Giantsbane_70 Start: 45239, Stop: 45478, Start Num: 4
Candidate Starts for Giantsbane_70:
(Start: 4 @45239 has 19 MA's), (12, 45344), (16, 45392), (17, 45401), (18, 45473),

Gene: Inked_72 Start: 47122, Stop: 47400, Start Num: 3
Candidate Starts for Inked_72:
(Start: 3 @47122 has 2 MA's), (Start: 4 @47131 has 19 MA's), (8, 47191), (13, 47263), (16, 47305), (17, 47314), (18, 47395),

Gene: LilHuddy_71 Start: 46367, Stop: 46606, Start Num: 4
Candidate Starts for LilHuddy_71:
(Start: 4 @46367 has 19 MA's), (15, 46517), (16, 46520), (17, 46529), (18, 46601),

Gene: LucySwiss_67 Start: 45674, Stop: 45919, Start Num: 4
Candidate Starts for LucySwiss_67:
(Start: 4 @45674 has 19 MA's), (7, 45728), (9, 45743), (12, 45779), (16, 45824), (17, 45833), (18, 45914),

Gene: Makai_71 Start: 46657, Stop: 46905, Start Num: 4
Candidate Starts for Makai_71:
(Start: 4 @46657 has 19 MA's), (10, 46741), (11, 46759), (12, 46762), (16, 46807), (17, 46816), (18, 46900),

Gene: MediumFry_67 Start: 45848, Stop: 46120, Start Num: 4
Candidate Starts for MediumFry_67:

(Start: 4 @45848 has 19 MA's), (6, 45890), (8, 45905), (10, 45932), (14, 46013), (17, 46034), (18, 46115),

Gene: MiniBagel_66 Start: 46629, Stop: 46907, Start Num: 3
Candidate Starts for MiniBagel_66:
(Start: 3 @46629 has 2 MA's), (Start: 4 @46638 has 19 MA's), (8, 46698), (17, 46821), (18, 46902),

Gene: Nightmare_68 Start: 46969, Stop: 47214, Start Num: 4
Candidate Starts for Nightmare_68:
(1, 46939), (Start: 4 @46969 has 19 MA's), (7, 47023), (9, 47038), (12, 47074), (13, 47098), (16, 47119), (17, 47128), (18, 47209),

Gene: Niktson_67 Start: 46565, Stop: 46810, Start Num: 4
Candidate Starts for Niktson_67:
(Start: 4 @46565 has 19 MA's), (7, 46619), (9, 46634), (12, 46670), (16, 46715), (17, 46724), (18, 46805),

Gene: Paella_131 Start: 71024, Stop: 71248, Start Num: 2
Candidate Starts for Paella_131:
(Start: 2 @71024 has 3 MA's), (5, 71045),

Gene: Phaby_72 Start: 46898, Stop: 47137, Start Num: 4
Candidate Starts for Phaby_72:
(Start: 4 @46898 has 19 MA's), (12, 47003), (16, 47051), (17, 47060), (18, 47132),

Gene: Qui_131 Start: 71024, Stop: 71248, Start Num: 2
Candidate Starts for Qui_131:
(Start: 2 @71024 has 3 MA's), (5, 71045),

Gene: ScienceWizSam_68 Start: 46263, Stop: 46508, Start Num: 4
Candidate Starts for ScienceWizSam_68:
(1, 46233), (Start: 4 @46263 has 19 MA's), (7, 46317), (9, 46332), (12, 46368), (13, 46392), (16, 46413), (17, 46422), (18, 46503),

Gene: Shepard_72 Start: 46220, Stop: 46459, Start Num: 4
Candidate Starts for Shepard_72:
(Start: 4 @46220 has 19 MA's), (15, 46370), (16, 46373), (17, 46382), (18, 46454),

Gene: Teacup_68 Start: 46608, Stop: 46853, Start Num: 4
Candidate Starts for Teacup_68:
(Start: 4 @46608 has 19 MA's), (7, 46662), (12, 46713), (16, 46758), (17, 46767), (18, 46848),

Gene: Tenno_67 Start: 46710, Stop: 46955, Start Num: 4
Candidate Starts for Tenno_67:
(Start: 4 @46710 has 19 MA's), (7, 46764), (9, 46779), (12, 46815), (16, 46860), (17, 46869), (18, 46950),

Gene: Tokki_76 Start: 46766, Stop: 47005, Start Num: 4
Candidate Starts for Tokki_76:
(Start: 4 @46766 has 19 MA's), (12, 46871), (16, 46919), (17, 46928), (18, 47000),

Gene: Truckee_69 Start: 46435, Stop: 46683, Start Num: 4
Candidate Starts for Truckee_69:

(Start: 4 @46435 has 19 MA's), (10, 46519), (11, 46537), (12, 46540), (16, 46585), (17, 46594), (18, 46678),