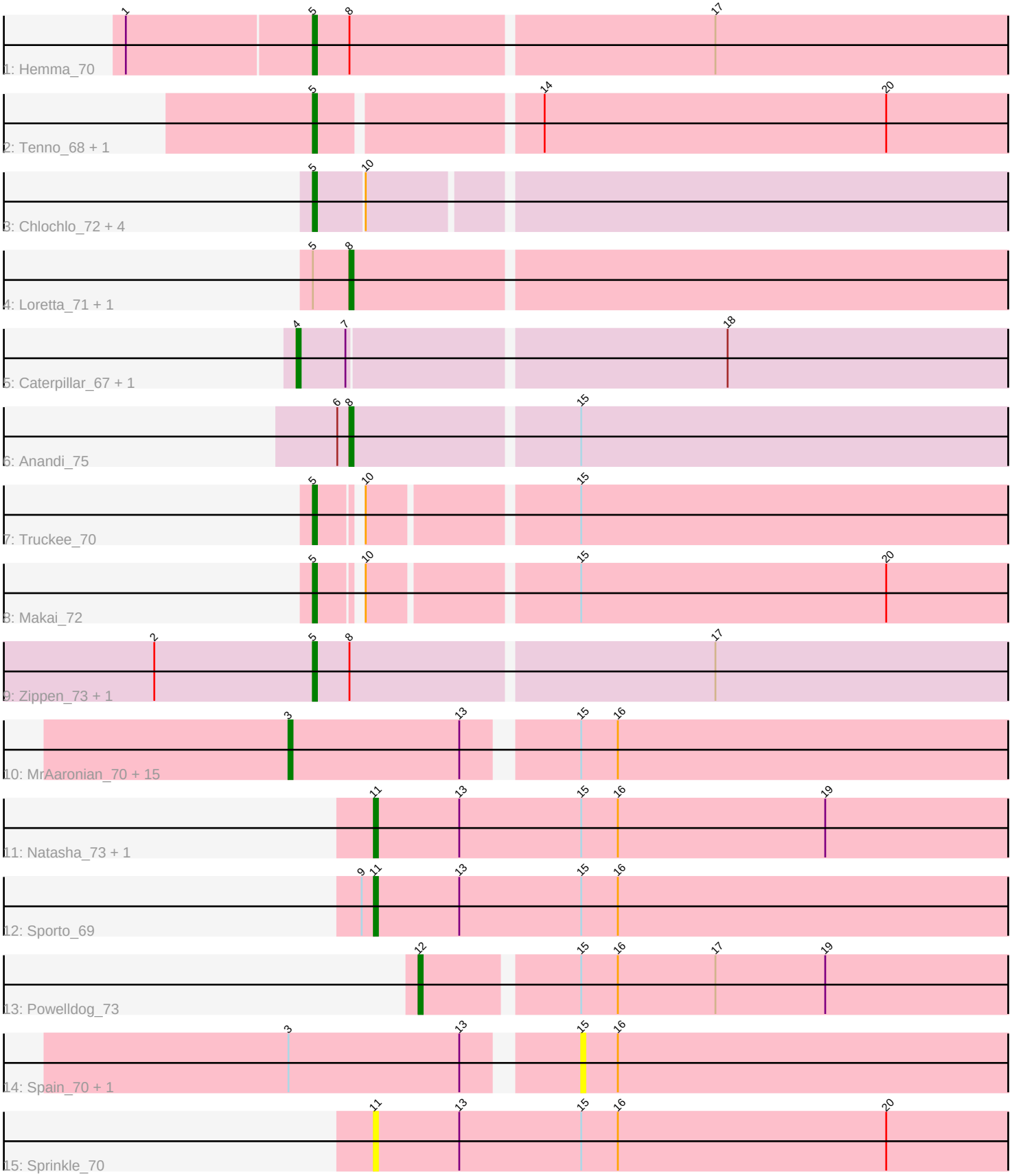
Pham 345911


1: Hemma_70
2: Tenno_68 + 1
3: Chlochlo_72 + 4
4: Loretta_71 + 1
5: Caterpillar_67 + 1
6: Anandi_75
7: Truckee_70
8: Makai_72
9: Zippen_73 + 1
10: MrAaronian_70 + 15
11: Natasha_73 + 1
12: Sporto_69
13: Powelldog_73
14: Spain_70 + 1
15: Sprinkle_70

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 345911 Report

This analysis was run 11/14/26 on database version 672.

Pham number 345911 has 40 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Hemma_70
• Track 2 : Tenno_68, CapnMurica_65
• Track 3 : Chlochlo_72, Tipton_73, Bouchard_72, Phaby_73, Tokki_77
• Track 4 : Loretta_71, Ingrid_74
• Track 5 : Caterpillar_67, MediumFry_68
• Track 6 : Anandi_75
• Track 7 : Truckee_70
• Track 8 : Makai_72
• Track 9 : Zippen_73, Inked_73
• Track 10 : MrAaronian_70, Sloopyjoe_70, Jeremy4pt0_69, Shiba_69, Salk_70, Egad_70, Stayer_70, Raunak_70, StarLord_70, BronxBay_70, Djungelskog_69, Boog_69, ProfFrink_70, Michelle_70, Linda_70, DoctorPepper_69
• Track 11 : Natasha_73, RustyBoy_74
• Track 12 : Sporto_69
• Track 13 : Powelldog_73
• Track 14 : Spain_70, HerbBucket_68
• Track 15 : Sprinkle_70

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

The start number called the most often in the published annotations is 3, it was called in 16 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Boog_69, BronxBay_70, Djungelskog_69, DoctorPepper_69, Egad_70, Jeremy4pt0_69, Linda_70, Michelle_70, MrAaronian_70, ProfFrink_70, Raunak_70, Salk_70, Shiba_69, Sloopyjoe_70, StarLord_70, Stayer_70,

Genes that have the "Most Annotated" start but do not call it:
• HerbBucket_68, Spain_70,

Genes that do not have the "Most Annotated" start:
• Anandi_75, Bouchard_72, CapnMurica_65, Caterpillar_67, Chlochlo_72, Hemma_70, Ingrid_74, Inked_73, Loretta_71, Makai_72, MediumFry_68,

Natasha_73, Phaby_73, Powelldog_73, RustyBoy_74, Sporto_69, Sprinkle_70, Tenno_68, Tipton_73, Tokki_77, Truckee_70, Zippen_73,

Summary by start number:

Start 3:
• Found in 18 of 40 (45.0%) of genes in pham
• Manual Annotations of this start: 16 of 37
• Called 88.9% of time when present
• Phage (with cluster) where this start called: Boog_69 (AW), BronxBay_70 (AW), Djungelskog_69 (AW), DoctorPepper_69 (AW), Egad_70 (AW), Jeremy4pt0_69 (AW), Linda_70 (AW), Michelle_70 (AW), MrAaronian_70 (AW), ProfFrink_70 (AW), Raunak_70 (AW), Salk_70 (AW), Shiba_69 (AW), Sloopyjoe_70 (AW), StarLord_70 (AW), Stayer_70 (AW),

Start 4:
• Found in 2 of 40 (5.0%) of genes in pham
• Manual Annotations of this start: 2 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Caterpillar_67 (AU4), MediumFry_68 (AU4),

Start 5:
• Found in 14 of 40 (35.0%) of genes in pham
• Manual Annotations of this start: 12 of 37
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Bouchard_72 (AU2), CapnMurica_65 (AU1), Chlochlo_72 (AU2), Hemma_70 (AU1), Inked_73 (AU7), Makai_72 (AU5), Phaby_73 (AU2), Tenno_68 (AU1), Tipton_73 (AU2), Tokki_77 (AU2), Truckee_70 (AU5), Zippen_73 (AU7),

Start 8:
• Found in 6 of 40 (15.0%) of genes in pham
• Manual Annotations of this start: 3 of 37
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Anandi_75 (AU4), Ingrid_74 (AU3), Loretta_71 (AU3),

Start 11:
• Found in 4 of 40 (10.0%) of genes in pham
• Manual Annotations of this start: 3 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Natasha_73 (AW), RustyBoy_74 (AW), Sporto_69 (AW), Sprinkle_70 (AW),

Start 12:
• Found in 1 of 40 (2.5%) of genes in pham
• Manual Annotations of this start: 1 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Powelldog_73 (AW),

Start 15:
• Found in 26 of 40 (65.0%) of genes in pham

• No Manual Annotations of this start.
• Called 7.7% of time when present
• Phage (with cluster) where this start called: HerbBucket_68 (AW), Spain_70 (AW),

Summary by clusters:

There are 7 clusters represented in this pham: AW, AU1, AU3, AU2, AU5, AU4, AU7,

Info for manual annotations of cluster AU1:
•Start number 5 was manually annotated 3 times for cluster AU1.

Info for manual annotations of cluster AU2:
•Start number 5 was manually annotated 5 times for cluster AU2.

Info for manual annotations of cluster AU3:
•Start number 8 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:
•Start number 4 was manually annotated 2 times for cluster AU4.
•Start number 8 was manually annotated 1 time for cluster AU4.

Info for manual annotations of cluster AU5:
•Start number 5 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU7:
•Start number 5 was manually annotated 2 times for cluster AU7.

Info for manual annotations of cluster AW:
•Start number 3 was manually annotated 16 times for cluster AW.
•Start number 11 was manually annotated 3 times for cluster AW.
•Start number 12 was manually annotated 1 time for cluster AW.

Gene Information:

Gene: Anandi_75 Start: 47127, Stop: 47306, Start Num: 8
Candidate Starts for Anandi_75:
(6, 47124), (Start: 8 @47127 has 3 MA's), (15, 47181),

Gene: Boog_69 Start: 44324, Stop: 44518, Start Num: 3
Candidate Starts for Boog_69:
(Start: 3 @44324 has 16 MA's), (13, 44366), (15, 44390), (16, 44399),

Gene: Bouchard_72 Start: 46989, Stop: 47174, Start Num: 5
Candidate Starts for Bouchard_72:
(Start: 5 @46989 has 12 MA's), (10, 47001),

Gene: BronxBay_70 Start: 44596, Stop: 44790, Start Num: 3
Candidate Starts for BronxBay_70:
(Start: 3 @44596 has 16 MA's), (13, 44638), (15, 44662), (16, 44671),

Gene: CapnMurica_65 Start: 46955, Stop: 47140, Start Num: 5

Candidate Starts for CapnMurica_65:
(Start: 5 @46955 has 12 MA's), (14, 47006), (20, 47090),

Gene: Caterpillar_67 Start: 45815, Stop: 46006, Start Num: 4
Candidate Starts for Caterpillar_67:
(Start: 4 @45815 has 2 MA's), (7, 45827), (18, 45917),

Gene: Chlochlo_72 Start: 46516, Stop: 46701, Start Num: 5
Candidate Starts for Chlochlo_72:
(Start: 5 @46516 has 12 MA's), (10, 46528),

Gene: Djungelskog_69 Start: 44598, Stop: 44792, Start Num: 3
Candidate Starts for Djungelskog_69:
(Start: 3 @44598 has 16 MA's), (13, 44640), (15, 44664), (16, 44673),

Gene: DoctorPepper_69 Start: 44300, Stop: 44494, Start Num: 3
Candidate Starts for DoctorPepper_69:
(Start: 3 @44300 has 16 MA's), (13, 44342), (15, 44366), (16, 44375),

Gene: Egad_70 Start: 44574, Stop: 44768, Start Num: 3
Candidate Starts for Egad_70:
(Start: 3 @44574 has 16 MA's), (13, 44616), (15, 44640), (16, 44649),

Gene: Hemma_70 Start: 44264, Stop: 44455, Start Num: 5
Candidate Starts for Hemma_70:
(1, 44219), (Start: 5 @44264 has 12 MA's), (Start: 8 @44273 has 3 MA's), (17, 44360),

Gene: HerbBucket_68 Start: 44372, Stop: 44500, Start Num: 15
Candidate Starts for HerbBucket_68:
(Start: 3 @44306 has 16 MA's), (13, 44348), (15, 44372), (16, 44381),

Gene: Ingrid_74 Start: 46820, Stop: 46999, Start Num: 8
Candidate Starts for Ingrid_74:
(Start: 5 @46811 has 12 MA's), (Start: 8 @46820 has 3 MA's),

Gene: Inked_73 Start: 47436, Stop: 47624, Start Num: 5
Candidate Starts for Inked_73:
(2, 47397), (Start: 5 @47436 has 12 MA's), (Start: 8 @47445 has 3 MA's), (17, 47532),

Gene: Jeremy4pt0_69 Start: 44295, Stop: 44489, Start Num: 3
Candidate Starts for Jeremy4pt0_69:
(Start: 3 @44295 has 16 MA's), (13, 44337), (15, 44361), (16, 44370),

Gene: Linda_70 Start: 44593, Stop: 44787, Start Num: 3
Candidate Starts for Linda_70:
(Start: 3 @44593 has 16 MA's), (13, 44635), (15, 44659), (16, 44668),

Gene: Loretta_71 Start: 46820, Stop: 46999, Start Num: 8
Candidate Starts for Loretta_71:
(Start: 5 @46811 has 12 MA's), (Start: 8 @46820 has 3 MA's),

Gene: Makai_72 Start: 46941, Stop: 47126, Start Num: 5
Candidate Starts for Makai_72:

(Start: 5 @46941 has 12 MA's), (10, 46950), (15, 46998), (20, 47073),

Gene: MediumFry_68 Start: 46153, Stop: 46344, Start Num: 4
Candidate Starts for MediumFry_68:
(Start: 4 @46153 has 2 MA's), (7, 46165), (18, 46255),

Gene: Michelle_70 Start: 44595, Stop: 44789, Start Num: 3
Candidate Starts for Michelle_70:
(Start: 3 @44595 has 16 MA's), (13, 44637), (15, 44661), (16, 44670),

Gene: MrAaronian_70 Start: 44595, Stop: 44789, Start Num: 3
Candidate Starts for MrAaronian_70:
(Start: 3 @44595 has 16 MA's), (13, 44637), (15, 44661), (16, 44670),

Gene: Natasha_73 Start: 44917, Stop: 45096, Start Num: 11
Candidate Starts for Natasha_73:
(Start: 11 @44917 has 3 MA's), (13, 44938), (15, 44968), (16, 44977), (19, 45028),

Gene: Phaby_73 Start: 47173, Stop: 47358, Start Num: 5
Candidate Starts for Phaby_73:
(Start: 5 @47173 has 12 MA's), (10, 47185),

Gene: Powelldog_73 Start: 45329, Stop: 45493, Start Num: 12
Candidate Starts for Powelldog_73:
(Start: 12 @45329 has 1 MA's), (15, 45365), (16, 45374), (17, 45398), (19, 45425),

Gene: ProfFrink_70 Start: 44573, Stop: 44767, Start Num: 3
Candidate Starts for ProfFrink_70:
(Start: 3 @44573 has 16 MA's), (13, 44615), (15, 44639), (16, 44648),

Gene: Raunak_70 Start: 44235, Stop: 44429, Start Num: 3
Candidate Starts for Raunak_70:
(Start: 3 @44235 has 16 MA's), (13, 44277), (15, 44301), (16, 44310),

Gene: RustyBoy_74 Start: 45116, Stop: 45295, Start Num: 11
Candidate Starts for RustyBoy_74:
(Start: 11 @45116 has 3 MA's), (13, 45137), (15, 45167), (16, 45176), (19, 45227),

Gene: Salk_70 Start: 44593, Stop: 44787, Start Num: 3
Candidate Starts for Salk_70:
(Start: 3 @44593 has 16 MA's), (13, 44635), (15, 44659), (16, 44668),

Gene: Shiba_69 Start: 44251, Stop: 44445, Start Num: 3
Candidate Starts for Shiba_69:
(Start: 3 @44251 has 16 MA's), (13, 44293), (15, 44317), (16, 44326),

Gene: Sloopyjoe_70 Start: 44597, Stop: 44791, Start Num: 3
Candidate Starts for Sloopyjoe_70:
(Start: 3 @44597 has 16 MA's), (13, 44639), (15, 44663), (16, 44672),

Gene: Spain_70 Start: 44661, Stop: 44789, Start Num: 15
Candidate Starts for Spain_70:
(Start: 3 @44595 has 16 MA's), (13, 44637), (15, 44661), (16, 44670),

Gene: Sporto_69 Start: 45691, Stop: 45870, Start Num: 11
Candidate Starts for Sporto_69:
(9, 45688), (Start: 11 @45691 has 3 MA's), (13, 45712), (15, 45742), (16, 45751),

Gene: Sprinkle_70 Start: 45048, Stop: 45230, Start Num: 11
Candidate Starts for Sprinkle_70:
(Start: 11 @45048 has 3 MA's), (13, 45069), (15, 45099), (16, 45108), (20, 45174),

Gene: StarLord_70 Start: 44590, Stop: 44784, Start Num: 3
Candidate Starts for StarLord_70:
(Start: 3 @44590 has 16 MA's), (13, 44632), (15, 44656), (16, 44665),

Gene: Stayer_70 Start: 44593, Stop: 44787, Start Num: 3
Candidate Starts for Stayer_70:
(Start: 3 @44593 has 16 MA's), (13, 44635), (15, 44659), (16, 44668),

Gene: Tenno_68 Start: 46992, Stop: 47177, Start Num: 5
Candidate Starts for Tenno_68:
(Start: 5 @46992 has 12 MA's), (14, 47043), (20, 47127),

Gene: Tipton_73 Start: 47010, Stop: 47195, Start Num: 5
Candidate Starts for Tipton_73:
(Start: 5 @47010 has 12 MA's), (10, 47022),

Gene: Tokki_77 Start: 47041, Stop: 47226, Start Num: 5
Candidate Starts for Tokki_77:
(Start: 5 @47041 has 12 MA's), (10, 47053),

Gene: Truckee_70 Start: 46719, Stop: 46904, Start Num: 5
Candidate Starts for Truckee_70:
(Start: 5 @46719 has 12 MA's), (10, 46728), (15, 46776),

Gene: Zippen_73 Start: 47301, Stop: 47489, Start Num: 5
Candidate Starts for Zippen_73:
(2, 47262), (Start: 5 @47301 has 12 MA's), (Start: 8 @47310 has 3 MA's), (17, 47397),