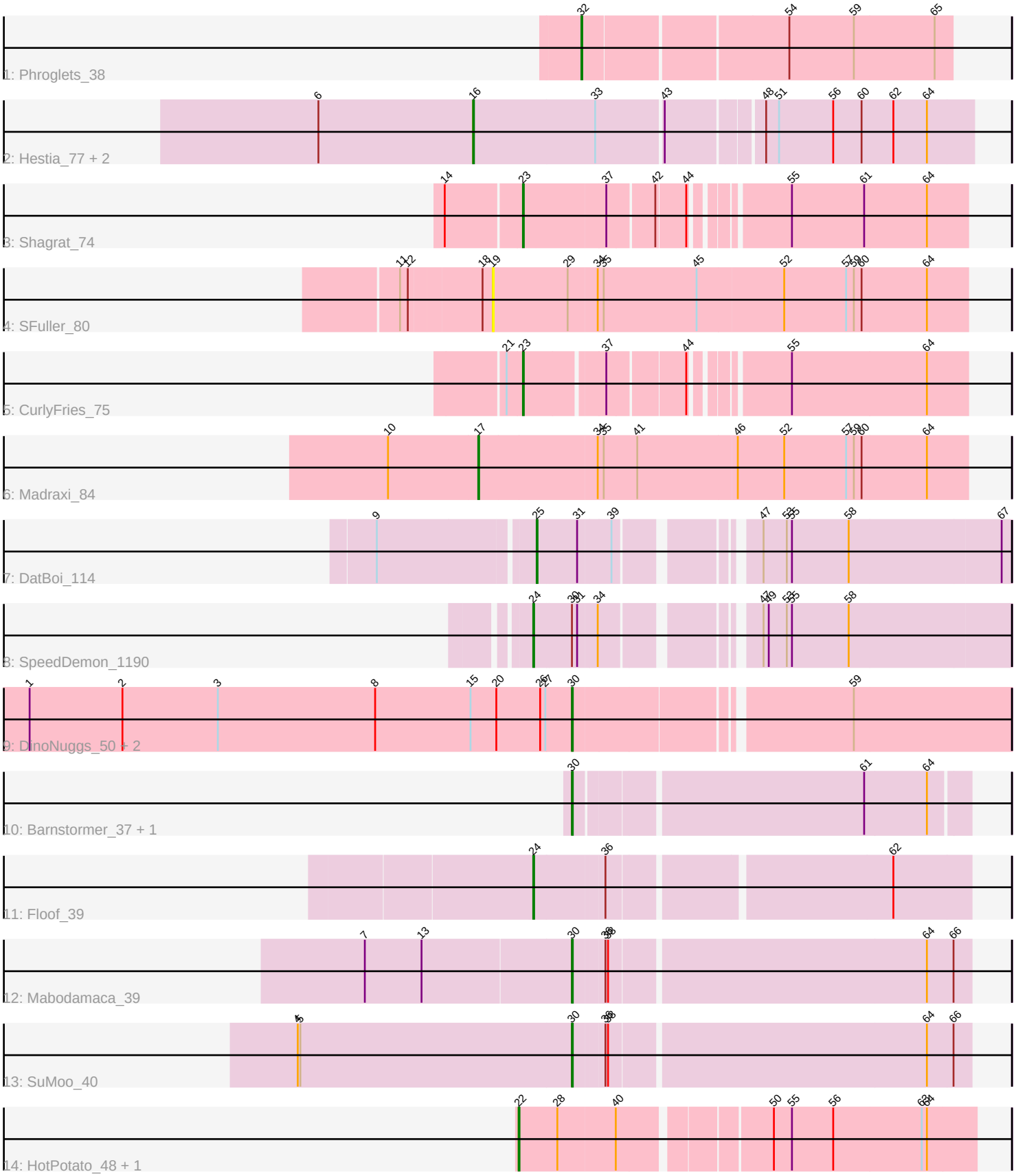
Pham 312049


1: Phroglets_38
2: Hestia_77 + 2
3: Shagrat_74
4: SFuller_80
5: CurlyFries_75
6: Madraxi_84
7: DatBoi_114
8: SpeedDemon_1190
9: DinoNuggs_50 + 2
10: Barnstormer_37 + 1
11: Floof_39
12: Mabodamaca_39
13: SuMoo_40
14: HotPotato_48 + 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 312049 Report

This analysis was run 06/27/26 on database version 652.

Pham number 312049 has 20 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Phroglets_38
• Track 2 : Hestia_77, MaterMagnus_83, Aikyam_82
• Track 3 : Shagrat_74
• Track 4 : SFuller_80
• Track 5 : CurlyFries_75
• Track 6 : Madraxi_84
• Track 7 : DatBoi_114
• Track 8 : SpeedDemon_1190
• Track 9 : DinoNuggs_50, DearBasketball_52, Reyja_50
• Track 10 : Barnstormer_37, UtzChips_37
• Track 11 : Floof_39
• Track 12 : Mabodamaca_39
• Track 13 : SuMoo_40
• Track 14 : HotPotato_48, Peas_48

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

The start number called the most often in the published annotations is 30, it was called in 5 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Barnstormer_37, DearBasketball_52, DinoNuggs_50, Mabodamaca_39, Reyja_50, SuMoo_40, UtzChips_37,

Genes that have the "Most Annotated" start but do not call it:
• SpeedDemon_1190,

Genes that do not have the "Most Annotated" start:
• Aikyam_82, CurlyFries_75, DatBoi_114, Floof_39, Hestia_77, HotPotato_48, Madraxi_84, MaterMagnus_83, Peas_48, Phroglets_38, SFuller_80, Shagrat_74,

Summary by start number:

Start 16:

• Found in 3 of 20 (15.0%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aikyam_82 (AY), Hestia_77 (AY), MaterMagnus_83 (AY),

Start 17:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Madraxi_84 (CF),

Start 19:
• Found in 1 of 20 (5.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SFuller_80 (CF),

Start 22:
• Found in 2 of 20 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: HotPotato_48 (FA), Peas_48 (FA),

Start 23:
• Found in 2 of 20 (10.0%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CurlyFries_75 (CF), Shagrat_74 (CF),

Start 24:
• Found in 2 of 20 (10.0%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Floof_39 (EH), SpeedDemon_1190 (DL),

Start 25:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DatBoi_114 (DL),

Start 30:
• Found in 8 of 20 (40.0%) of genes in pham
• Manual Annotations of this start: 5 of 15
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Barnstormer_37 (EH), DearBasketball_52 (DY), DinoNuggs_50 (DY), Mabodamaca_39 (EH), Reyja_50 (DY), SuMoo_40 (EH), UtzChips_37 (EH),

Start 32:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 15

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phroglets_38 (AV),

Summary by clusters:

There are 7 clusters represented in this pham: DL, EH, AV, CF, FA, DY, AY,

Info for manual annotations of cluster AV:
•Start number 32 was manually annotated 1 time for cluster AV.

Info for manual annotations of cluster AY:
•Start number 16 was manually annotated 2 times for cluster AY.

Info for manual annotations of cluster CF:
•Start number 17 was manually annotated 1 time for cluster CF.
•Start number 23 was manually annotated 2 times for cluster CF.

Info for manual annotations of cluster DL:
•Start number 24 was manually annotated 1 time for cluster DL.
•Start number 25 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DY:
•Start number 30 was manually annotated 1 time for cluster DY.

Info for manual annotations of cluster EH:
•Start number 24 was manually annotated 1 time for cluster EH.
•Start number 30 was manually annotated 4 times for cluster EH.

Info for manual annotations of cluster FA:
•Start number 22 was manually annotated 1 time for cluster FA.

Gene Information:

Gene: Aikyam_82 Start: 45399, Stop: 45956, Start Num: 16
Candidate Starts for Aikyam_82:
(6, 45219), (Start: 16 @45399 has 2 MA's), (33, 45540), (43, 45615), (48, 45717), (51, 45732), (56, 45795), (60, 45828), (62, 45864), (64, 45903),

Gene: Barnstormer_37 Start: 25193, Stop: 25627, Start Num: 30
Candidate Starts for Barnstormer_37:
(Start: 30 @25193 has 5 MA's), (61, 25511), (64, 25583),

Gene: CurlyFries_75 Start: 42797, Stop: 43261, Start Num: 23
Candidate Starts for CurlyFries_75:
(21, 42779), (Start: 23 @42797 has 2 MA's), (37, 42881), (44, 42965), (55, 43058), (64, 43214),

Gene: DatBoi_114 Start: 72473, Stop: 72970, Start Num: 25
Candidate Starts for DatBoi_114:
(9, 72302), (Start: 25 @72473 has 1 MA's), (31, 72518), (39, 72554), (47, 72686), (53, 72713), (55, 72719), (58, 72785), (67, 72959),

Gene: DearBasketball_52 Start: 33392, Stop: 33871, Start Num: 30
Candidate Starts for DearBasketball_52:
(1, 32762), (2, 32870), (3, 32981), (8, 33164), (15, 33275), (20, 33305), (26, 33356), (27, 33362), (Start: 30 @33392 has 5 MA's), (59, 33689),

Gene: DinoNuggs_50 Start: 33061, Stop: 33540, Start Num: 30
Candidate Starts for DinoNuggs_50:
(1, 32431), (2, 32539), (3, 32650), (8, 32833), (15, 32944), (20, 32974), (26, 33025), (27, 33031), (Start: 30 @33061 has 5 MA's), (59, 33358),

Gene: Floof_39 Start: 25907, Stop: 26380, Start Num: 24
Candidate Starts for Floof_39:
(Start: 24 @25907 has 2 MA's), (36, 25982), (62, 26291),

Gene: Hestia_77 Start: 44735, Stop: 45292, Start Num: 16
Candidate Starts for Hestia_77:
(6, 44555), (Start: 16 @44735 has 2 MA's), (33, 44876), (43, 44951), (48, 45053), (51, 45068), (56, 45131), (60, 45164), (62, 45200), (64, 45239),

Gene: HotPotato_48 Start: 32721, Stop: 33224, Start Num: 22
Candidate Starts for HotPotato_48:
(Start: 22 @32721 has 1 MA's), (28, 32766), (40, 32832), (50, 32991), (55, 33012), (56, 33060), (63, 33162), (64, 33168),

Gene: Mabodamaca_39 Start: 26406, Stop: 26849, Start Num: 30
Candidate Starts for Mabodamaca_39:
(7, 26169), (13, 26235), (Start: 30 @26406 has 5 MA's), (36, 26439), (38, 26442), (64, 26799), (66, 26829),

Gene: Madraxi_84 Start: 50398, Stop: 50958, Start Num: 17
Candidate Starts for Madraxi_84:
(10, 50296), (Start: 17 @50398 has 1 MA's), (34, 50533), (35, 50539), (41, 50578), (46, 50692), (52, 50746), (57, 50818), (59, 50827), (60, 50836), (64, 50911),

Gene: MaterMagnus_83 Start: 47571, Stop: 48128, Start Num: 16
Candidate Starts for MaterMagnus_83:
(6, 47391), (Start: 16 @47571 has 2 MA's), (33, 47712), (43, 47787), (48, 47889), (51, 47904), (56, 47967), (60, 48000), (62, 48036), (64, 48075),

Gene: Peas_48 Start: 33578, Stop: 34081, Start Num: 22
Candidate Starts for Peas_48:
(Start: 22 @33578 has 1 MA's), (28, 33623), (40, 33689), (50, 33848), (55, 33869), (56, 33917), (63, 34019), (64, 34025),

Gene: Phroglets_38 Start: 36660, Stop: 36247, Start Num: 32
Candidate Starts for Phroglets_38:
(Start: 32 @36660 has 1 MA's), (54, 36435), (59, 36360), (65, 36267),

Gene: Reyja_50 Start: 33061, Stop: 33540, Start Num: 30
Candidate Starts for Reyja_50:
(1, 32431), (2, 32539), (3, 32650), (8, 32833), (15, 32944), (20, 32974), (26, 33025), (27, 33031), (Start: 30 @33061 has 5 MA's), (59, 33358),

Gene: SFuller_80 Start: 48187, Stop: 48732, Start Num: 19
Candidate Starts for SFuller_80:
(11, 48085), (12, 48094), (18, 48175), (19, 48187), (29, 48274), (34, 48307), (35, 48313), (45, 48421), (52, 48520), (57, 48592), (59, 48601), (60, 48610), (64, 48685),

Gene: Shagrat_74 Start: 43582, Stop: 44052, Start Num: 23
Candidate Starts for Shagrat_74:
(14, 43498), (Start: 23 @43582 has 2 MA's), (37, 43672), (42, 43723), (44, 43756), (55, 43849), (61, 43933), (64, 44005),

Gene: SpeedDemon_1190 Start: 76290, Stop: 76790, Start Num: 24
Candidate Starts for SpeedDemon_1190:
(Start: 24 @76290 has 2 MA's), (Start: 30 @76332 has 5 MA's), (31, 76338), (34, 76359), (47, 76506), (49, 76512), (53, 76533), (55, 76539), (58, 76605),

Gene: SuMoo_40 Start: 26007, Stop: 26450, Start Num: 30
Candidate Starts for SuMoo_40:
(4, 25689), (5, 25692), (Start: 30 @26007 has 5 MA's), (36, 26040), (38, 26043), (64, 26400), (66, 26430),

Gene: UtzChips_37 Start: 25178, Stop: 25612, Start Num: 30
Candidate Starts for UtzChips_37:
(Start: 30 @25178 has 5 MA's), (61, 25496), (64, 25568),