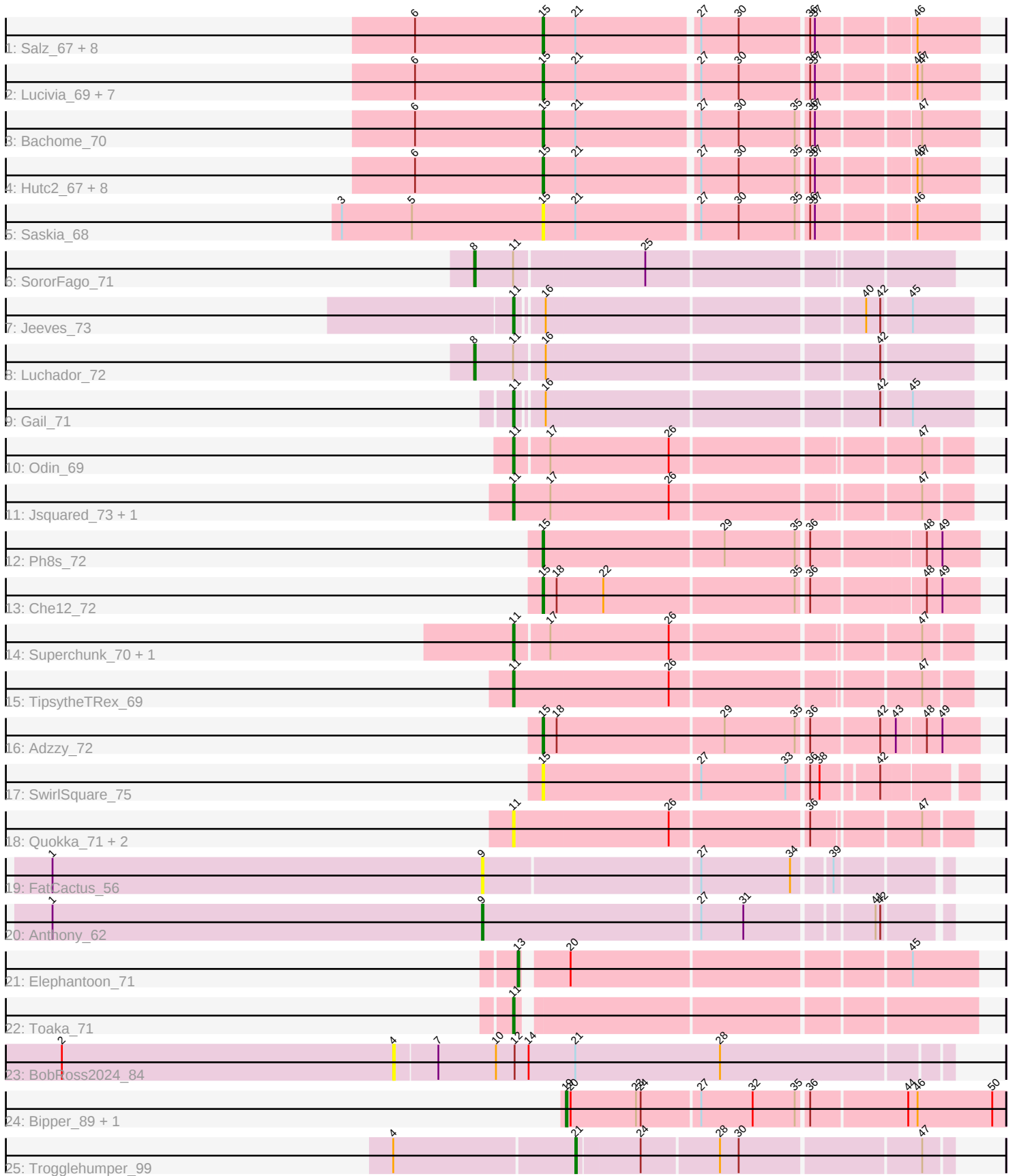


Pham 280518



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 280518 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280518 has 53 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Salz_67, Fibonacci_68, Mulciber_67, Snape_68, Ebony_68, Gilberta_69, Et2Brutus_67, MaCh_68, Mabel_68
- Track 2 : Lucivia_69, Orange_67, Flaverint_69, Bowtie_69, Sham4_68, Timothy_68, Munch_68, Aneem_69
- Track 3 : Bachome_70
- Track 4 : Hutc2_67, Petersenfast_66, Jabith_69, Insomnia_69, TinyTimmy_68, Kimba_67, Wolpertinger_66, Bud_67, Joselito_69
- Track 5 : Saskia_68
- Track 6 : SororFago_71
- Track 7 : Jeeves_73
- Track 8 : Luchador_72
- Track 9 : Gail_71
- Track 10 : Odin_69
- Track 11 : Jsquared_73, Serenity_73
- Track 12 : Ph8s_72
- Track 13 : Che12_72
- Track 14 : Superchunk_70, Caraxes_71
- Track 15 : TipsytheTRex_69
- Track 16 : Adzzy_72
- Track 17 : SwirlSquare_75
- Track 18 : Quokka_71, MajorMajor_71, Bradman_72
- Track 19 : FatCactus_56
- Track 20 : Anthony_62
- Track 21 : Elephantoon_71
- Track 22 : Toaka_71
- Track 23 : BobRoss2024_84
- Track 24 : Bipper_89, Cracklewink_90
- Track 25 : Trogglehumper_99

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

The start number called the most often in the published annotations is 15, it was called in 27 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adzzy_72, Aneem_69, Bachome_70, Bowtie_69, Bud_67, Che12_72, Ebony_68, Et2Brutus_67, Fibonacci_68, Flaverint_69, Gilberta_69, Hutc2_67, Insomnia_69, Jabith_69, Joselito_69, Kimba_67, Lucivia_69, MaCh_68, Mabel_68, Mulciber_67, Munch_68, Orange_67, Petersenfast_66, Ph8s_72, Salz_67, Saskia_68, Sham4_68, Snape_68, SwirlSquare_75, Timothy_68, TinyTimmy_68, Wolpertinger_66,

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

-

Genes that do not have the "Most Annotated" start:

- Anthony_62, Bipper_89, BobRoss2024_84, Bradman_72, Caraxes_71, Cracklewink_90, Elephantoon_71, FatCactus_56, Gail_71, Jeeves_73, Jsquared_73, Luchador_72, MajorMajor_71, Odin_69, Quokka_71, Serenity_73, SororFago_71, Superchunk_70, TopsytheTRex_69, Toaka_71, Trogglehumper_99,

Summary by start number:

Start 4:

- Found in 2 of 53 (3.8%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BobRoss2024_84 (DR),

Start 8:

- Found in 2 of 53 (3.8%) of genes in pham
- Manual Annotations of this start: 2 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Luchador_72 (A14), SororFago_71 (A14),

Start 9:

- Found in 2 of 53 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anthony_62 (A20), FatCactus_56 (A20),

Start 11:

- Found in 14 of 53 (26.4%) of genes in pham
- Manual Annotations of this start: 8 of 42
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Bradman_72 (A2), Caraxes_71 (A2), Gail_71 (A14), Jeeves_73 (A14), Jsquared_73 (A2), MajorMajor_71 (A2), Odin_69 (A2), Quokka_71 (A2), Serenity_73 (A2), Superchunk_70 (A2), TopsytheTRex_69 (A2), Toaka_71 (A9),

Start 13:

- Found in 1 of 53 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elephantoon_71 (A9),

Start 15:

- Found in 32 of 53 (60.4%) of genes in pham
- Manual Annotations of this start: 27 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adzzy_72 (A2), Aneem_69 (A11), Bachome_70 (A11), Bowtie_69 (A11), Bud_67 (A11), Che12_72 (A2), Ebony_68 (A11), Et2Brutus_67 (A11), Fibonacci_68 (A11), Flaverint_69 (A11), Gilberta_69 (A11), Hutc2_67 (A11), Insomnia_69 (A11), Jabith_69 (A11), Joselito_69 (A11), Kimba_67 (A11), Lucivia_69 (A11), MaCh_68 (A11), Mabel_68 (A11), Mulciber_67 (A11), Munch_68 (A11), Orange_67 (A11), Petersenfast_66 (A11), Ph8s_72 (A2), Salz_67 (A11), Saskia_68 (A11), Sham4_68 (A11), Snape_68 (A11), SwirlSquare_75 (A2), Timothy_68 (A11), TinyTimmy_68 (A11), Wolpertinger_66 (A11),

Start 19:

- Found in 2 of 53 (3.8%) of genes in pham
- Manual Annotations of this start: 2 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bipper_89 (Y), Cracklewink_90 (Y),

Start 21:

- Found in 30 of 53 (56.6%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 3.3% of time when present
- Phage (with cluster) where this start called: Trogglehumper_99 (singleton),

Summary by clusters:

There are 8 clusters represented in this pham: A20, A14, singleton, A11, Y, A2, A9, DR,

Info for manual annotations of cluster A11:

- Start number 15 was manually annotated 24 times for cluster A11.

Info for manual annotations of cluster A14:

- Start number 8 was manually annotated 2 times for cluster A14.
- Start number 11 was manually annotated 2 times for cluster A14.

Info for manual annotations of cluster A2:

- Start number 11 was manually annotated 5 times for cluster A2.
- Start number 15 was manually annotated 3 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 9 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A9:

- Start number 11 was manually annotated 1 time for cluster A9.
- Start number 13 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster Y:

- Start number 19 was manually annotated 2 times for cluster Y.

Gene: Superchunk_70 Start: 41338, Stop: 41066, Start Num: 11
Candidate Starts for Superchunk_70:
(Start: 11 @41338 has 8 MA's), (17, 41317), (26, 41242), (47, 41095),

Gene: SwirlSquare_75 Start: 42056, Stop: 41799, Start Num: 15
Candidate Starts for SwirlSquare_75:
(Start: 15 @42056 has 27 MA's), (27, 41957), (33, 41903), (36, 41891), (38, 41885), (42, 41852),

Gene: Timothy_68 Start: 41262, Stop: 41002, Start Num: 15
Candidate Starts for Timothy_68:
(6, 41343), (Start: 15 @41262 has 27 MA's), (Start: 21 @41241 has 1 MA's), (27, 41166), (30, 41142),
(36, 41100), (37, 41097), (46, 41040), (47, 41037),

Gene: TinyTimmy_68 Start: 41255, Stop: 40995, Start Num: 15
Candidate Starts for TinyTimmy_68:
(6, 41336), (Start: 15 @41255 has 27 MA's), (Start: 21 @41234 has 1 MA's), (27, 41159), (30, 41135),
(35, 41099), (36, 41093), (37, 41090), (46, 41033), (47, 41030),

Gene: TipsytheTRex_69 Start: 42350, Stop: 42075, Start Num: 11
Candidate Starts for TipsytheTRex_69:
(Start: 11 @42350 has 8 MA's), (26, 42251), (47, 42104),

Gene: Toaka_71 Start: 42411, Stop: 42136, Start Num: 11
Candidate Starts for Toaka_71:
(Start: 11 @42411 has 8 MA's),

Gene: Trogglehumper_99 Start: 71065, Stop: 70838, Start Num: 21
Candidate Starts for Trogglehumper_99:
(4, 71179), (Start: 21 @71065 has 1 MA's), (24, 71026), (28, 70978), (30, 70966), (47, 70855),

Gene: Wolpertinger_66 Start: 41294, Stop: 41034, Start Num: 15
Candidate Starts for Wolpertinger_66:
(6, 41375), (Start: 15 @41294 has 27 MA's), (Start: 21 @41273 has 1 MA's), (27, 41198), (30, 41174),
(35, 41138), (36, 41132), (37, 41129), (46, 41072), (47, 41069),