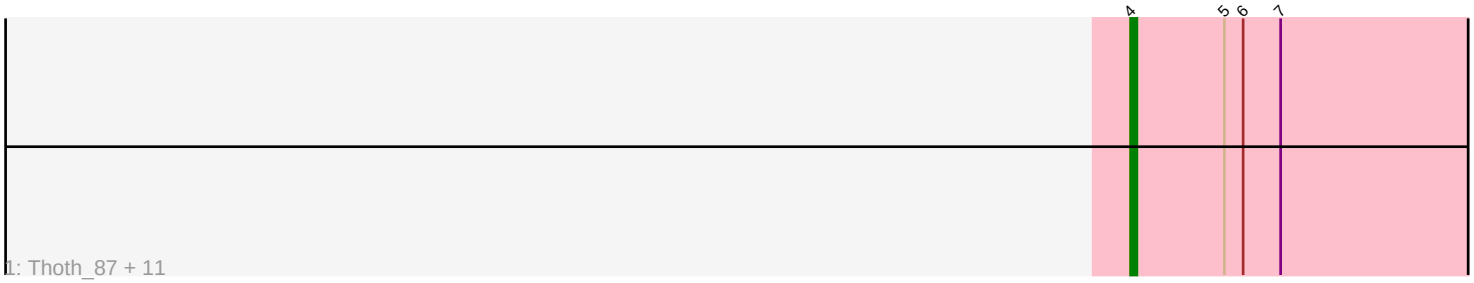
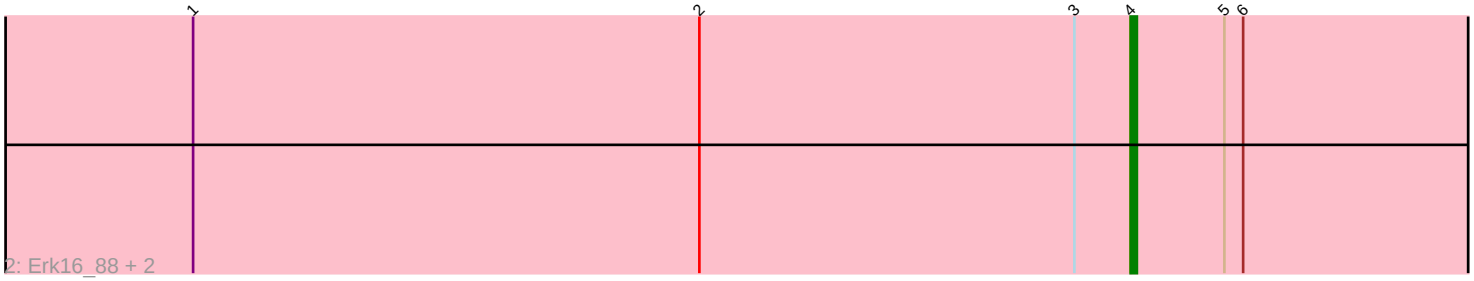
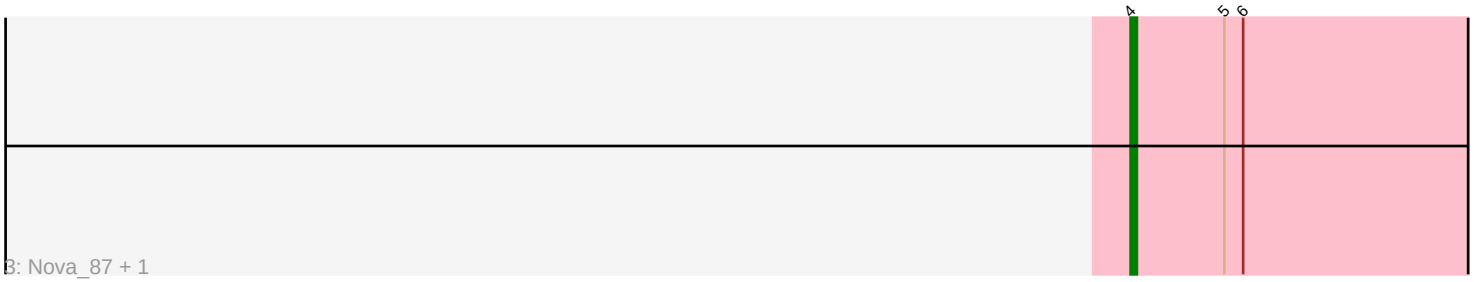
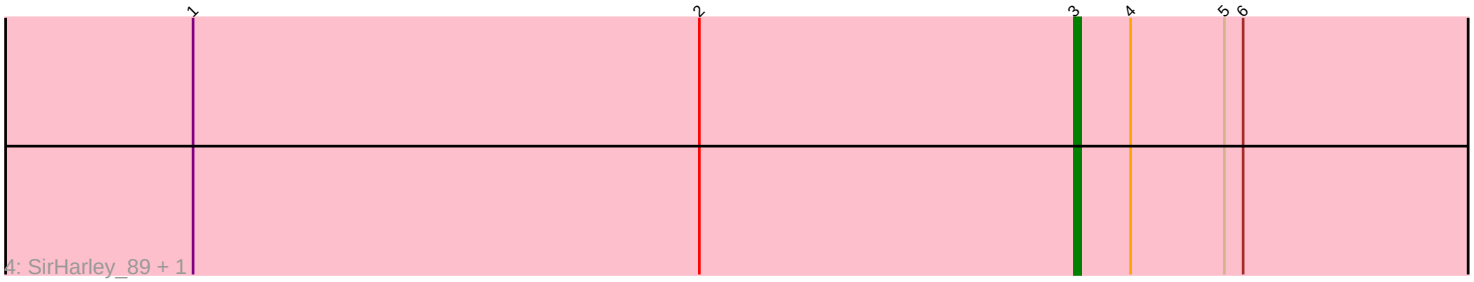
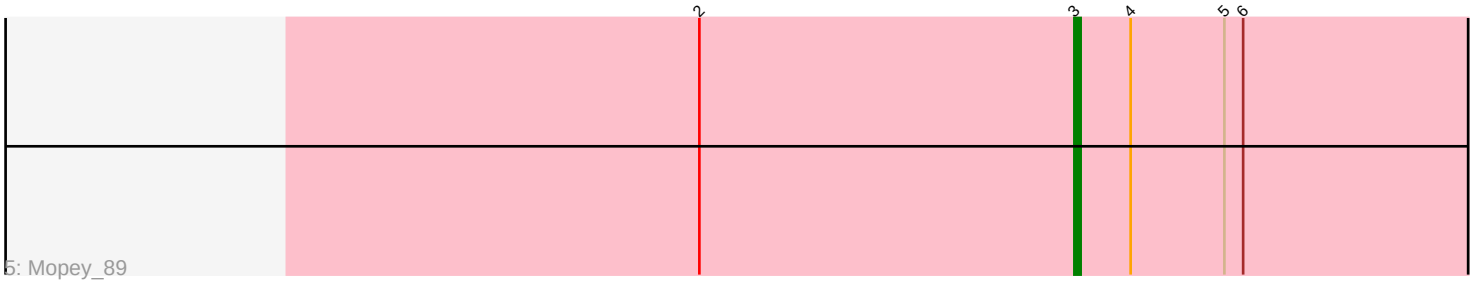
Pham 190118


4
5
6
7
1: Thoth_87 + 11


1
2
3
4
5
6
2: Erk16_88 + 2


4
5
6
3: Nova_87 + 1


1
2
3
4
5
6
4: SirHarley_89 + 1


2
3
4
5
6
5: Mopey_89

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 190118 Report

This analysis was run 11/02/24 on database version 579.

Pham number 190118 has 20 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Thoth_87, BigMama_86, Butterscotch_85, Helpful_90, Chill_88, WaldoWhy_88, Troll4_87, Delton_86, Penelope2018_87, Adjutor_85, Visconti_88, Prager_86
• Track 2 : Erk16_88, Gumball_87, KandZ_85
• Track 3 : Nova_87, Giuseppe_89
• Track 4 : SirHarley_89, PLot_88
• Track 5 : Mopey_89

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 16 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adjutor_85, BigMama_86, Butterscotch_85, Chill_88, Delton_86, Erk16_88, Giuseppe_89, Gumball_87, Helpful_90, KandZ_85, Nova_87, Penelope2018_87, Prager_86, Thoth_87, Troll4_87, Visconti_88, WaldoWhy_88,

Genes that have the "Most Annotated" start but do not call it:
• Mopey_89, PLot_88, SirHarley_89,

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

Summary by start number:

Start 3:
• Found in 6 of 20 (30.0%) of genes in pham
• Manual Annotations of this start: 3 of 19
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Mopey_89 (D1), PLot_88 (D1), SirHarley_89 (D1),

Start 4:

• Found in 20 of 20 (100.0%) of genes in pham
• Manual Annotations of this start: 16 of 19
• Called 85.0% of time when present
• Phage (with cluster) where this start called: Adjutor_85 (D1), BigMama_86 (D1), Butterscotch_85 (D1), Chill_88 (D1), Delton_86 (D1), Erk16_88 (D1), Giuseppe_89 (D1), Gumball_87 (D1), Helpful_90 (D1), KandZ_85 (D1), Nova_87 (D1), Penelope2018_87 (D1), Prager_86 (D1), Thoth_87 (D1), Troll4_87 (D1), Visconti_88 (D1), WaldoWhy_88 (D1),

Summary by clusters:

There is one cluster represented in this pham: D1

Info for manual annotations of cluster D1:
•Start number 3 was manually annotated 3 times for cluster D1.
•Start number 4 was manually annotated 16 times for cluster D1.

Gene Information:

Gene: Adjutor_85 Start: 60952, Stop: 61065, Start Num: 4
Candidate Starts for Adjutor_85:
(Start: 4 @60952 has 16 MA's), (5, 60967), (6, 60970), (7, 60976),

Gene: BigMama_86 Start: 61043, Stop: 61156, Start Num: 4
Candidate Starts for BigMama_86:
(Start: 4 @61043 has 16 MA's), (5, 61058), (6, 61061), (7, 61067),

Gene: Butterscotch_85 Start: 61003, Stop: 61116, Start Num: 4
Candidate Starts for Butterscotch_85:
(Start: 4 @61003 has 16 MA's), (5, 61018), (6, 61021), (7, 61027),

Gene: Chill_88 Start: 60980, Stop: 61093, Start Num: 4
Candidate Starts for Chill_88:
(Start: 4 @60980 has 16 MA's), (5, 60995), (6, 60998), (7, 61004),

Gene: Delton_86 Start: 61413, Stop: 61526, Start Num: 4
Candidate Starts for Delton_86:
(Start: 4 @61413 has 16 MA's), (5, 61428), (6, 61431), (7, 61437),

Gene: Erk16_88 Start: 61335, Stop: 61448, Start Num: 4
Candidate Starts for Erk16_88:
(1, 61185), (2, 61266), (Start: 3 @61326 has 3 MA's), (Start: 4 @61335 has 16 MA's), (5, 61350), (6, 61353),

Gene: Giuseppe_89 Start: 61055, Stop: 61168, Start Num: 4
Candidate Starts for Giuseppe_89:
(Start: 4 @61055 has 16 MA's), (5, 61070), (6, 61073),

Gene: Gumball_87 Start: 61267, Stop: 61380, Start Num: 4
Candidate Starts for Gumball_87:

(1, 61117), (2, 61198), (Start: 3 @61258 has 3 MA's), (Start: 4 @61267 has 16 MA's), (5, 61282), (6, 61285),

Gene: Helpful_90 Start: 61254, Stop: 61367, Start Num: 4
Candidate Starts for Helpful_90:
(Start: 4 @61254 has 16 MA's), (5, 61269), (6, 61272), (7, 61278),

Gene: KandZ_85 Start: 61077, Stop: 61190, Start Num: 4
Candidate Starts for KandZ_85:
(1, 60927), (2, 61008), (Start: 3 @61068 has 3 MA's), (Start: 4 @61077 has 16 MA's), (5, 61092), (6, 61095),

Gene: Mopey_89 Start: 61066, Stop: 61188, Start Num: 3
Candidate Starts for Mopey_89:
(2, 61006), (Start: 3 @61066 has 3 MA's), (Start: 4 @61075 has 16 MA's), (5, 61090), (6, 61093),

Gene: Nova_87 Start: 61568, Stop: 61681, Start Num: 4
Candidate Starts for Nova_87:
(Start: 4 @61568 has 16 MA's), (5, 61583), (6, 61586),

Gene: PLot_88 Start: 61220, Stop: 61342, Start Num: 3
Candidate Starts for PLot_88:
(1, 61079), (2, 61160), (Start: 3 @61220 has 3 MA's), (Start: 4 @61229 has 16 MA's), (5, 61244), (6, 61247),

Gene: Penelope2018_87 Start: 61005, Stop: 61118, Start Num: 4
Candidate Starts for Penelope2018_87:
(Start: 4 @61005 has 16 MA's), (5, 61020), (6, 61023), (7, 61029),

Gene: Prager_86 Start: 60913, Stop: 61026, Start Num: 4
Candidate Starts for Prager_86:
(Start: 4 @60913 has 16 MA's), (5, 60928), (6, 60931), (7, 60937),

Gene: SirHarley_89 Start: 61242, Stop: 61364, Start Num: 3
Candidate Starts for SirHarley_89:
(1, 61101), (2, 61182), (Start: 3 @61242 has 3 MA's), (Start: 4 @61251 has 16 MA's), (5, 61266), (6, 61269),

Gene: Thoth_87 Start: 61056, Stop: 61169, Start Num: 4
Candidate Starts for Thoth_87:
(Start: 4 @61056 has 16 MA's), (5, 61071), (6, 61074), (7, 61080),

Gene: Troll4_87 Start: 61063, Stop: 61176, Start Num: 4
Candidate Starts for Troll4_87:
(Start: 4 @61063 has 16 MA's), (5, 61078), (6, 61081), (7, 61087),

Gene: Visconti_88 Start: 61020, Stop: 61133, Start Num: 4
Candidate Starts for Visconti_88:
(Start: 4 @61020 has 16 MA's), (5, 61035), (6, 61038), (7, 61044),

Gene: WaldoWhy_88 Start: 60980, Stop: 61093, Start Num: 4
Candidate Starts for WaldoWhy_88:
(Start: 4 @60980 has 16 MA's), (5, 60995), (6, 60998), (7, 61004),