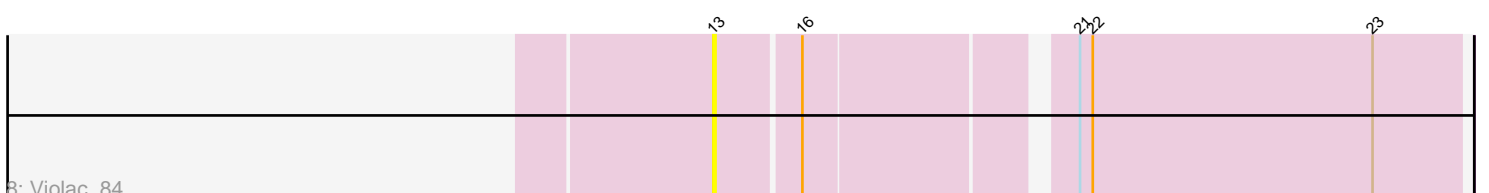
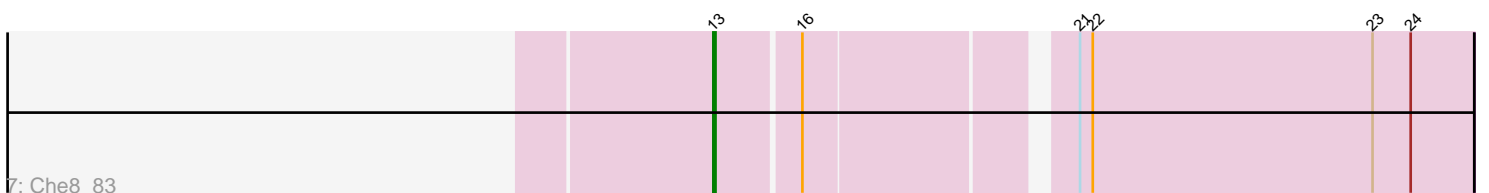
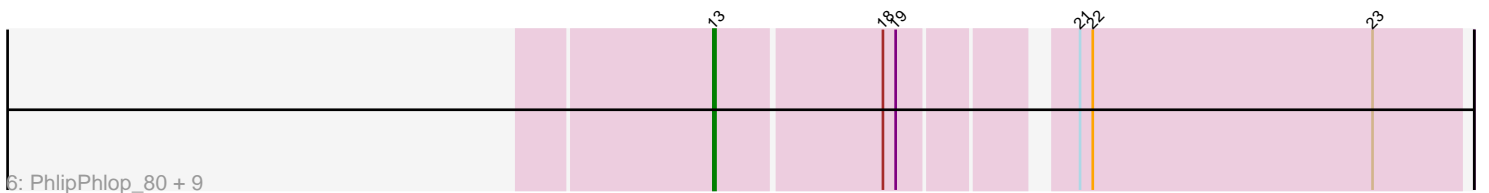
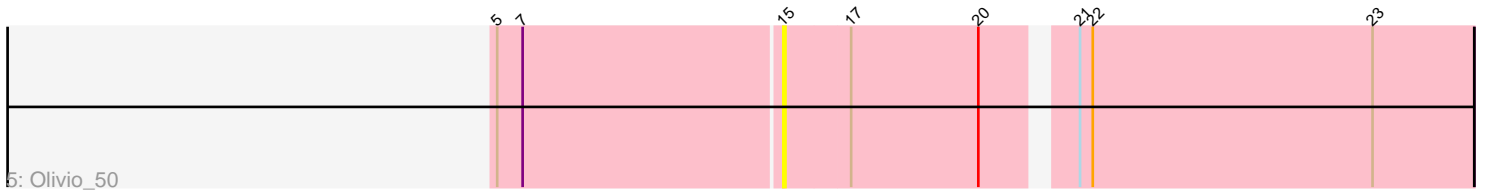
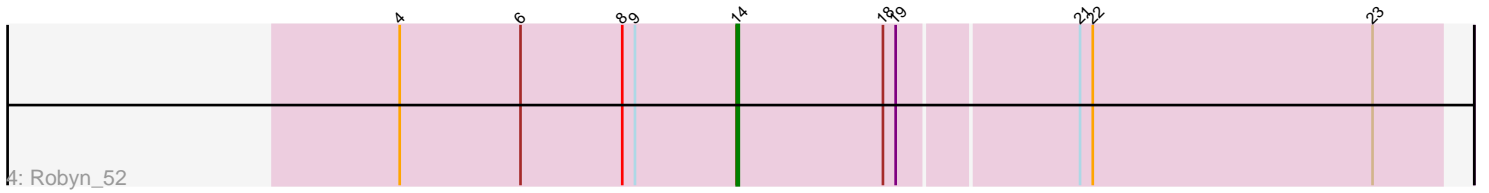
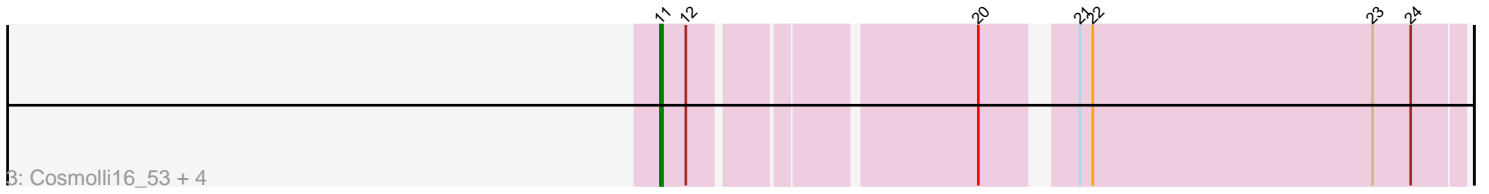
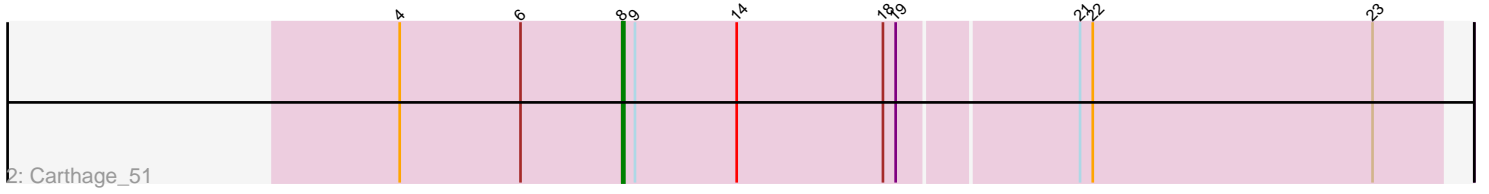
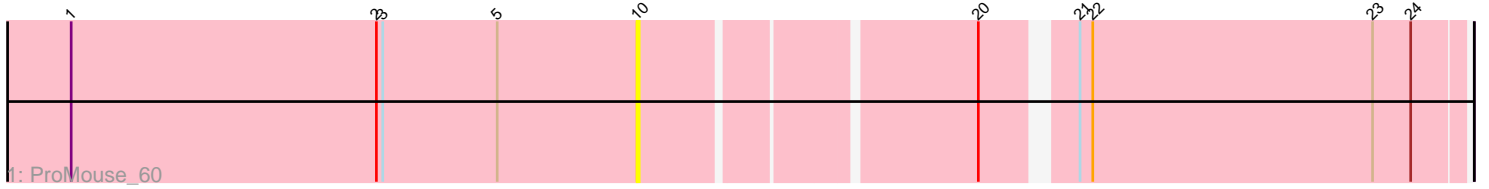


Pham 224902



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 224902 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224902 has 21 members, 7 are drafts.

Phages represented in each track:

- Track 1 : ProMouse_60
- Track 2 : Carthage_51
- Track 3 : Cosmolli16_53, LeiMonet_54, Maru_52, Grand2040_52, Giraffe_53
- Track 4 : Robyn_52
- Track 5 : Olivio_50
- Track 6 : PhlipPhlop_80, Starcevich_80, GigiOuiOui_74, EmiMonkey_80, Fastidio_80, Totinger_82, LilMoolah_78, LittleShirley_86, Nivrat_76, Vivum_82
- Track 7 : Che8_83
- Track 8 : Violac_84

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

The start number called the most often in the published annotations is 13, it was called in 8 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Che8_83, EmiMonkey_80, Fastidio_80, GigiOuiOui_74, LilMoolah_78, LittleShirley_86, Nivrat_76, PhlipPhlop_80, Starcevich_80, Totinger_82, Violac_84, Vivum_82,

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

-

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

- Carthage_51, Cosmolli16_53, Giraffe_53, Grand2040_52, LeiMonet_54, Maru_52, Olivio_50, ProMouse_60, Robyn_52,

Summary by start number:

Start 8:

- Found in 2 of 21 (9.5%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Carthage_51 (B1),

Start 10:

- Found in 1 of 21 (4.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ProMouse_60 (A1),

Start 11:

- Found in 5 of 21 (23.8%) of genes in pham
- Manual Annotations of this start: 4 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cosmolli16_53 (B1), Giraffe_53 (B1), Grand2040_52 (B1), LeiMonet_54 (B1), Maru_52 (B1),

Start 13:

- Found in 12 of 21 (57.1%) of genes in pham
- Manual Annotations of this start: 8 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Che8_83 (F1), EmiMonkey_80 (F1), Fastidio_80 (F1), GigiOuiOui_74 (F1), LilMoolah_78 (F1), LittleShirley_86 (F1), Nivrat_76 (F1), PhlipPhlop_80 (F1), Starcevich_80 (F1), Totinger_82 (F1), Violac_84 (F1), Vivum_82 (F1),

Start 14:

- Found in 2 of 21 (9.5%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Robyn_52 (B1),

Start 15:

- Found in 1 of 21 (4.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Olivio_50 (B3),

Summary by clusters:

There are 4 clusters represented in this pham: A1, F1, B1, B3,

Info for manual annotations of cluster B1:

- Start number 8 was manually annotated 1 time for cluster B1.
- Start number 11 was manually annotated 4 times for cluster B1.
- Start number 14 was manually annotated 1 time for cluster B1.

Info for manual annotations of cluster F1:

- Start number 13 was manually annotated 8 times for cluster F1.

Gene Information:

Gene: Carthage_51 Start: 46401, Stop: 46021, Start Num: 8
Candidate Starts for Carthage_51:
(4, 46506), (6, 46449), (Start: 8 @46401 has 1 MA's), (9, 46395), (Start: 14 @46347 has 1 MA's), (18, 46278), (19, 46272), (21, 46191), (22, 46185), (23, 46053),

Gene: Che8_83 Start: 48984, Stop: 49319, Start Num: 13
Candidate Starts for Che8_83:
(Start: 13 @48984 has 8 MA's), (16, 49020), (21, 49134), (22, 49140), (23, 49272), (24, 49290),

Gene: Cosmolli16_53 Start: 47545, Stop: 47198, Start Num: 11
Candidate Starts for Cosmolli16_53:
(Start: 11 @47545 has 4 MA's), (12, 47533), (20, 47413), (21, 47377), (22, 47371), (23, 47239), (24, 47221),

Gene: EmiMonkey_80 Start: 52533, Stop: 52862, Start Num: 13
Candidate Starts for EmiMonkey_80:
(Start: 13 @52533 has 8 MA's), (18, 52608), (19, 52614), (21, 52683), (22, 52689), (23, 52821),

Gene: Fastidio_80 Start: 45795, Stop: 46124, Start Num: 13
Candidate Starts for Fastidio_80:
(Start: 13 @45795 has 8 MA's), (18, 45870), (19, 45876), (21, 45945), (22, 45951), (23, 46083),

Gene: GigiOuiOui_74 Start: 47391, Stop: 47720, Start Num: 13
Candidate Starts for GigiOuiOui_74:
(Start: 13 @47391 has 8 MA's), (18, 47466), (19, 47472), (21, 47541), (22, 47547), (23, 47679),

Gene: Giraffe_53 Start: 47326, Stop: 46979, Start Num: 11
Candidate Starts for Giraffe_53:
(Start: 11 @47326 has 4 MA's), (12, 47314), (20, 47194), (21, 47158), (22, 47152), (23, 47020), (24, 47002),

Gene: Grand2040_52 Start: 47320, Stop: 46973, Start Num: 11
Candidate Starts for Grand2040_52:
(Start: 11 @47320 has 4 MA's), (12, 47308), (20, 47188), (21, 47152), (22, 47146), (23, 47014), (24, 46996),

Gene: LeiMonet_54 Start: 47306, Stop: 46959, Start Num: 11
Candidate Starts for LeiMonet_54:
(Start: 11 @47306 has 4 MA's), (12, 47294), (20, 47174), (21, 47138), (22, 47132), (23, 47000), (24, 46982),

Gene: LilMoolah_78 Start: 48539, Stop: 48874, Start Num: 13
Candidate Starts for LilMoolah_78:
(Start: 13 @48539 has 8 MA's), (18, 48614), (19, 48620), (21, 48689), (22, 48695), (23, 48827),

Gene: LittleShirley_86 Start: 49468, Stop: 49797, Start Num: 13
Candidate Starts for LittleShirley_86:
(Start: 13 @49468 has 8 MA's), (18, 49543), (19, 49549), (21, 49618), (22, 49624), (23, 49756),

Gene: Maru_52 Start: 47257, Stop: 46910, Start Num: 11
Candidate Starts for Maru_52:
(Start: 11 @47257 has 4 MA's), (12, 47245), (20, 47125), (21, 47089), (22, 47083), (23, 46951), (24, 46933),

Gene: Nivrat_76 Start: 48412, Stop: 48747, Start Num: 13

Candidate Starts for Nivrat_76:

(Start: 13 @48412 has 8 MA's), (18, 48487), (19, 48493), (21, 48562), (22, 48568), (23, 48700),

Gene: Olivio_50 Start: 45330, Stop: 45019, Start Num: 15

Candidate Starts for Olivio_50:

(5, 45462), (7, 45450), (15, 45330), (17, 45300), (20, 45240), (21, 45204), (22, 45198), (23, 45066),

Gene: PhlipPhlop_80 Start: 52533, Stop: 52862, Start Num: 13

Candidate Starts for PhlipPhlop_80:

(Start: 13 @52533 has 8 MA's), (18, 52608), (19, 52614), (21, 52683), (22, 52689), (23, 52821),

Gene: ProMouse_60 Start: 41014, Stop: 40655, Start Num: 10

Candidate Starts for ProMouse_60:

(1, 41281), (2, 41137), (3, 41134), (5, 41080), (10, 41014), (20, 40870), (21, 40834), (22, 40828), (23, 40696), (24, 40678),

Gene: Robyn_52 Start: 47008, Stop: 46682, Start Num: 14

Candidate Starts for Robyn_52:

(4, 47167), (6, 47110), (Start: 8 @47062 has 1 MA's), (9, 47056), (Start: 14 @47008 has 1 MA's), (18, 46939), (19, 46933), (21, 46852), (22, 46846), (23, 46714),

Gene: Starcevich_80 Start: 49749, Stop: 50078, Start Num: 13

Candidate Starts for Starcevich_80:

(Start: 13 @49749 has 8 MA's), (18, 49824), (19, 49830), (21, 49899), (22, 49905), (23, 50037),

Gene: Totinger_82 Start: 48545, Stop: 48874, Start Num: 13

Candidate Starts for Totinger_82:

(Start: 13 @48545 has 8 MA's), (18, 48620), (19, 48626), (21, 48695), (22, 48701), (23, 48833),

Gene: Violac_84 Start: 49810, Stop: 50139, Start Num: 13

Candidate Starts for Violac_84:

(Start: 13 @49810 has 8 MA's), (16, 49846), (21, 49960), (22, 49966), (23, 50098),

Gene: Vivum_82 Start: 50435, Stop: 50764, Start Num: 13

Candidate Starts for Vivum_82:

(Start: 13 @50435 has 8 MA's), (18, 50510), (19, 50516), (21, 50585), (22, 50591), (23, 50723),