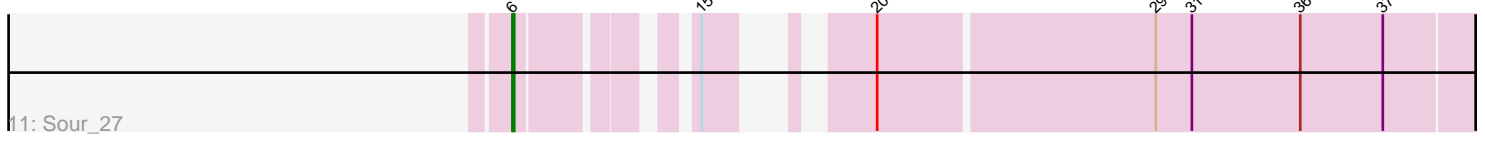
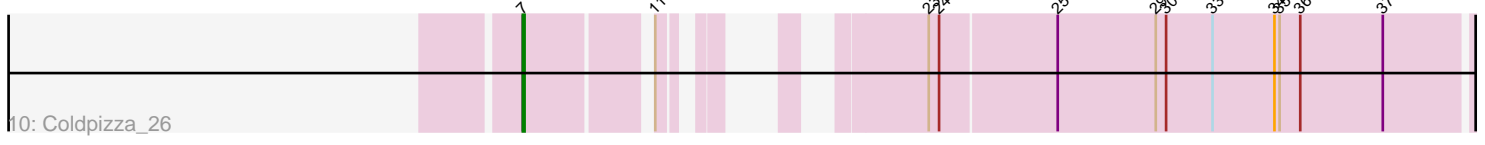
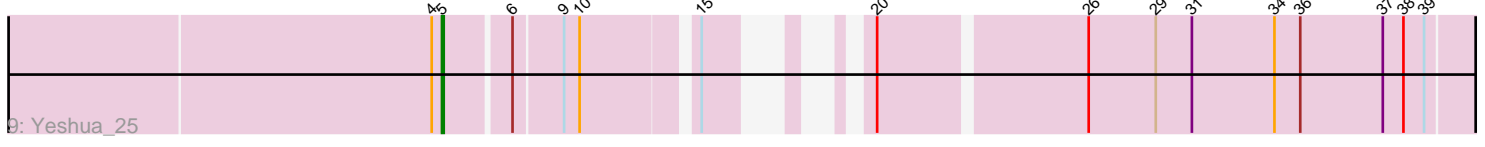
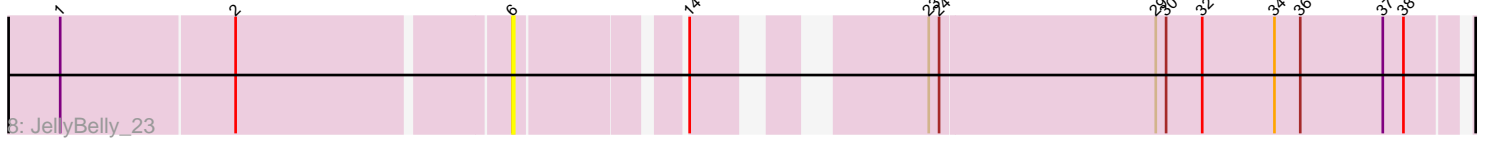
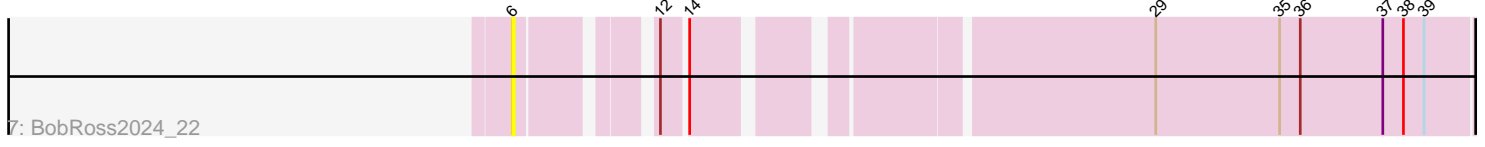
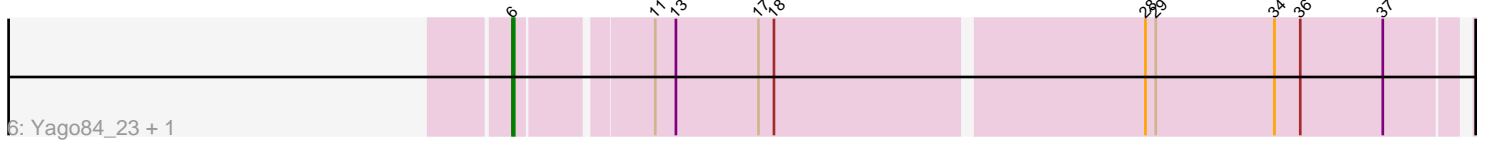
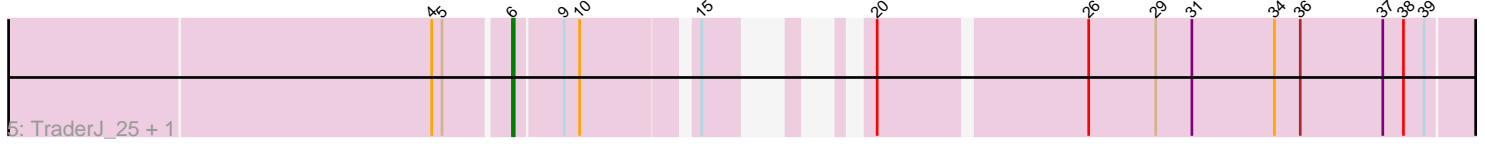
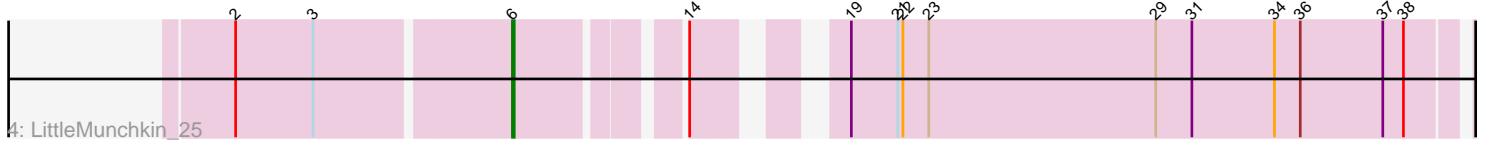
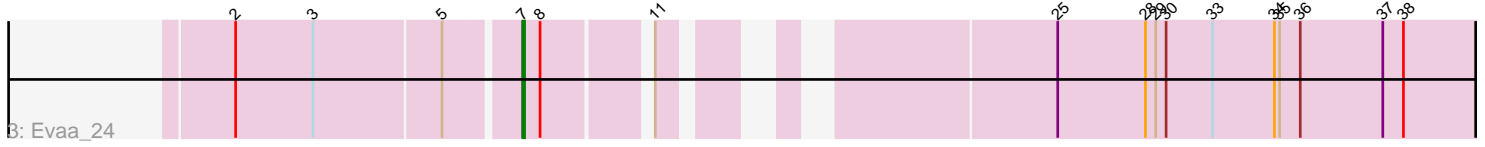
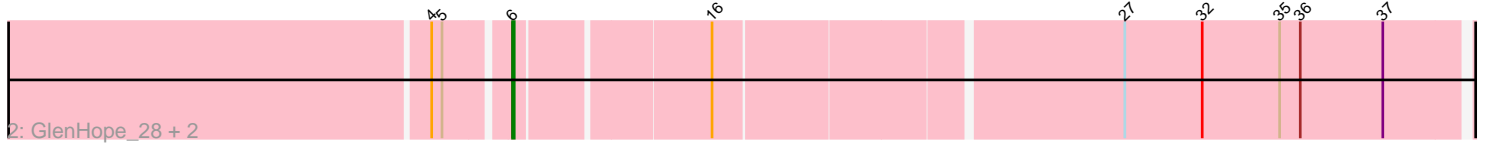
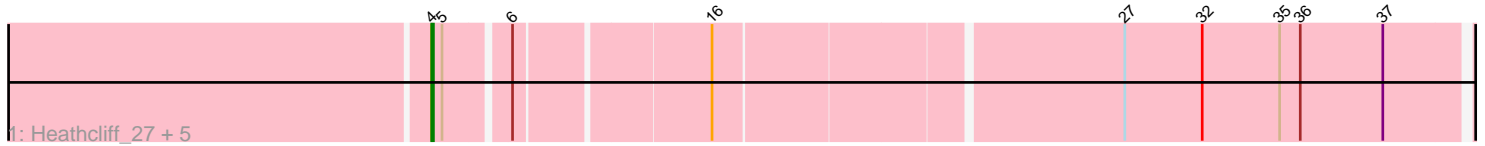


Pham 305334



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 305334 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305334 has 20 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Heathcliff_27, Bernardo_27, Yahalom_27, Phlyer_27, Neos5_27, Akoma_27
- Track 2 : GlenHope_28, Kronus_26, Shenandoah_27
- Track 3 : Evaa_24
- Track 4 : LittleMunchkin_25
- Track 5 : TraderJ_25, Wooper_25
- Track 6 : Yago84_23, AnClar_24
- Track 7 : BobRoss2024_22
- Track 8 : JellyBelly_23
- Track 9 : Yeshua_25
- Track 10 : Coldpizza_26
- Track 11 : Sour_27

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

The start number called the most often in the published annotations is 6, it was called in 7 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AnClar_24, BobRoss2024_22, GlenHope_28, JellyBelly_23, Kronus_26, LittleMunchkin_25, Shenandoah_27, Sour_27, TraderJ_25, Wooper_25, Yago84_23,

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

- Akoma_27, Bernardo_27, Heathcliff_27, Neos5_27, Phlyer_27, Yahalom_27, Yeshua_25,

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

- Coldpizza_26, Evaa_24,

Summary by start number:

Start 4:

- Found in 12 of 20 (60.0%) of genes in pham
- Manual Annotations of this start: 6 of 16

- Called 50.0% of time when present
- Phage (with cluster) where this start called: Akoma_27 (B3), Bernardo_27 (B3), Heathcliff_27 (B3), Neos5_27 (B3), Phlyer_27 (B3), Yahalom_27 (B3),

Start 5:

- Found in 13 of 20 (65.0%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 7.7% of time when present
- Phage (with cluster) where this start called: Yeshua_25 (DR),

Start 6:

- Found in 18 of 20 (90.0%) of genes in pham
- Manual Annotations of this start: 7 of 16
- Called 61.1% of time when present
- Phage (with cluster) where this start called: AnClar_24 (DR), BobRoss2024_22 (DR), GlenHope_28 (B3), JellyBelly_23 (DR), Kronus_26 (B3), LittleMunchkin_25 (DR), Shenandoah_27 (B3), Sour_27 (DR), TraderJ_25 (DR), Wooper_25 (DR), Yago84_23 (DR),

Start 7:

- Found in 2 of 20 (10.0%) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Coldpizza_26 (DR), Evaa_24 (DR),

Summary by clusters:

There are 2 clusters represented in this pham: DR, B3,

Info for manual annotations of cluster B3:

- Start number 4 was manually annotated 6 times for cluster B3.
- Start number 6 was manually annotated 2 times for cluster B3.

Info for manual annotations of cluster DR:

- Start number 5 was manually annotated 1 time for cluster DR.
- Start number 6 was manually annotated 5 times for cluster DR.
- Start number 7 was manually annotated 2 times for cluster DR.

Gene Information:

Gene: Akoma_27 Start: 19777, Stop: 20370, Start Num: 4

Candidate Starts for Akoma_27:

(Start: 4 @19777 has 6 MA's), (Start: 5 @19783 has 1 MA's), (Start: 6 @19816 has 7 MA's), (16, 19921), (27, 20146), (32, 20191), (35, 20236), (36, 20248), (37, 20296),

Gene: AnClar_24 Start: 19894, Stop: 20457, Start Num: 6

Candidate Starts for AnClar_24:

(Start: 6 @19894 has 7 MA's), (11, 19966), (13, 19978), (17, 20026), (18, 20035), (28, 20242), (29, 20248), (34, 20317), (36, 20332), (37, 20380),

Gene: Bernardo_27 Start: 19776, Stop: 20369, Start Num: 4

Candidate Starts for Bernardo_27:

(Start: 4 @19776 has 6 MA's), (Start: 5 @19782 has 1 MA's), (Start: 6 @19815 has 7 MA's), (16, 19920), (27, 20145), (32, 20190), (35, 20235), (36, 20247), (37, 20295),

Gene: BobRoss2024_22 Start: 17442, Stop: 17978, Start Num: 6

Candidate Starts for BobRoss2024_22:

(Start: 6 @17442 has 7 MA's), (12, 17505), (14, 17517), (29, 17754), (35, 17826), (36, 17838), (37, 17886), (38, 17898), (39, 17910),

Gene: Coldpizza_26 Start: 21916, Stop: 22410, Start Num: 7

Candidate Starts for Coldpizza_26:

(Start: 7 @21916 has 2 MA's), (11, 21979), (23, 22066), (24, 22072), (25, 22138), (29, 22195), (30, 22201), (33, 22228), (34, 22264), (35, 22267), (36, 22279), (37, 22327),

Gene: Evaa_24 Start: 18931, Stop: 19455, Start Num: 7

Candidate Starts for Evaa_24:

(2, 18775), (3, 18820), (Start: 5 @18892 has 1 MA's), (Start: 7 @18931 has 2 MA's), (8, 18940), (11, 18994), (25, 19171), (28, 19222), (29, 19228), (30, 19234), (33, 19261), (34, 19297), (35, 19300), (36, 19312), (37, 19360), (38, 19372),

Gene: GlenHope_28 Start: 19808, Stop: 20362, Start Num: 6

Candidate Starts for GlenHope_28:

(Start: 4 @19769 has 6 MA's), (Start: 5 @19775 has 1 MA's), (Start: 6 @19808 has 7 MA's), (16, 19913), (27, 20138), (32, 20183), (35, 20228), (36, 20240), (37, 20288),

Gene: Heathcliff_27 Start: 19738, Stop: 20331, Start Num: 4

Candidate Starts for Heathcliff_27:

(Start: 4 @19738 has 6 MA's), (Start: 5 @19744 has 1 MA's), (Start: 6 @19777 has 7 MA's), (16, 19882), (27, 20107), (32, 20152), (35, 20197), (36, 20209), (37, 20257),

Gene: JellyBelly_23 Start: 17580, Stop: 18104, Start Num: 6

Candidate Starts for JellyBelly_23:

(1, 17331), (2, 17430), (Start: 6 @17580 has 7 MA's), (14, 17664), (23, 17766), (24, 17772), (29, 17895), (30, 17901), (32, 17922), (34, 17964), (36, 17979), (37, 18027), (38, 18039),

Gene: Kronus_26 Start: 20398, Stop: 20952, Start Num: 6

Candidate Starts for Kronus_26:

(Start: 4 @20359 has 6 MA's), (Start: 5 @20365 has 1 MA's), (Start: 6 @20398 has 7 MA's), (16, 20503), (27, 20728), (32, 20773), (35, 20818), (36, 20830), (37, 20878),

Gene: LittleMunchkin_25 Start: 20512, Stop: 21039, Start Num: 6

Candidate Starts for LittleMunchkin_25:

(2, 20359), (3, 20404), (Start: 6 @20512 has 7 MA's), (14, 20593), (19, 20650), (21, 20677), (22, 20680), (23, 20695), (29, 20827), (31, 20848), (34, 20896), (36, 20911), (37, 20959), (38, 20971),

Gene: Neos5_27 Start: 20568, Stop: 21161, Start Num: 4

Candidate Starts for Neos5_27:

(Start: 4 @20568 has 6 MA's), (Start: 5 @20574 has 1 MA's), (Start: 6 @20607 has 7 MA's), (16, 20712), (27, 20937), (32, 20982), (35, 21027), (36, 21039), (37, 21087),

Gene: Phlyer_27 Start: 20511, Stop: 21104, Start Num: 4

Candidate Starts for Phlyer_27:

(Start: 4 @20511 has 6 MA's), (Start: 5 @20517 has 1 MA's), (Start: 6 @20550 has 7 MA's), (16, 20655), (27, 20880), (32, 20925), (35, 20970), (36, 20982), (37, 21030),

Gene: Shenandoah_27 Start: 19794, Stop: 20348, Start Num: 6

Candidate Starts for Shenandoah_27:

(Start: 4 @19755 has 6 MA's), (Start: 5 @19761 has 1 MA's), (Start: 6 @19794 has 7 MA's), (16, 19899), (27, 20124), (32, 20169), (35, 20214), (36, 20226), (37, 20274),

Gene: Sour_27 Start: 21685, Stop: 22194, Start Num: 6

Candidate Starts for Sour_27:

(Start: 6 @21685 has 7 MA's), (15, 21763), (20, 21817), (29, 21973), (31, 21994), (36, 22057), (37, 22105),

Gene: TraderJ_25 Start: 19070, Stop: 19585, Start Num: 6

Candidate Starts for TraderJ_25:

(Start: 4 @19028 has 6 MA's), (Start: 5 @19034 has 1 MA's), (Start: 6 @19070 has 7 MA's), (9, 19097), (10, 19106), (15, 19166), (20, 19208), (26, 19322), (29, 19361), (31, 19382), (34, 19430), (36, 19445), (37, 19493), (38, 19505), (39, 19517),

Gene: Wooper_25 Start: 19076, Stop: 19591, Start Num: 6

Candidate Starts for Wooper_25:

(Start: 4 @19034 has 6 MA's), (Start: 5 @19040 has 1 MA's), (Start: 6 @19076 has 7 MA's), (9, 19103), (10, 19112), (15, 19172), (20, 19214), (26, 19328), (29, 19367), (31, 19388), (34, 19436), (36, 19451), (37, 19499), (38, 19511), (39, 19523),

Gene: Yago84_23 Start: 17975, Stop: 18538, Start Num: 6

Candidate Starts for Yago84_23:

(Start: 6 @17975 has 7 MA's), (11, 18047), (13, 18059), (17, 18107), (18, 18116), (28, 18323), (29, 18329), (34, 18398), (36, 18413), (37, 18461),

Gene: Yahalom_27 Start: 19789, Stop: 20382, Start Num: 4

Candidate Starts for Yahalom_27:

(Start: 4 @19789 has 6 MA's), (Start: 5 @19795 has 1 MA's), (Start: 6 @19828 has 7 MA's), (16, 19933), (27, 20158), (32, 20203), (35, 20248), (36, 20260), (37, 20308),

Gene: Yeshua_25 Start: 19017, Stop: 19568, Start Num: 5

Candidate Starts for Yeshua_25:

(Start: 4 @19011 has 6 MA's), (Start: 5 @19017 has 1 MA's), (Start: 6 @19053 has 7 MA's), (9, 19080), (10, 19089), (15, 19149), (20, 19191), (26, 19305), (29, 19344), (31, 19365), (34, 19413), (36, 19428), (37, 19476), (38, 19488), (39, 19500),