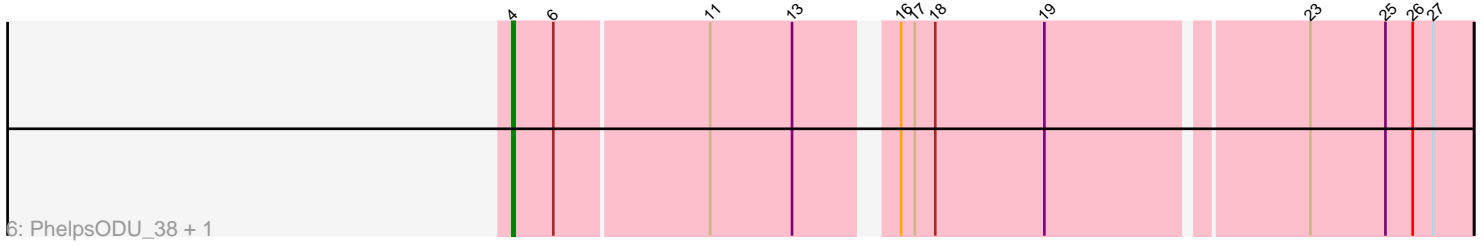
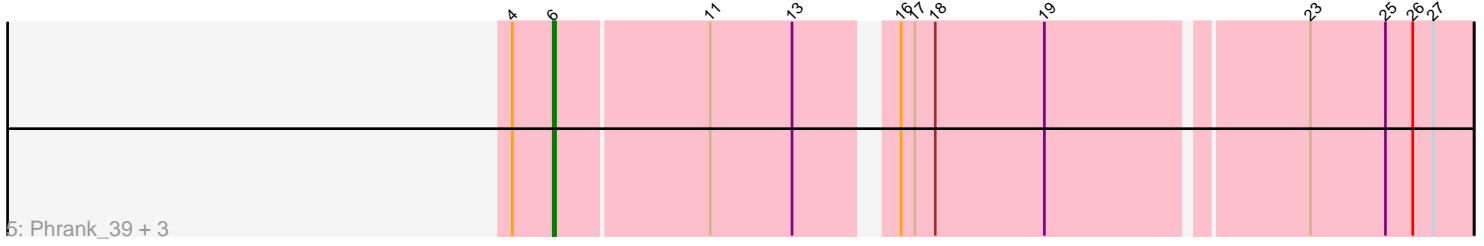
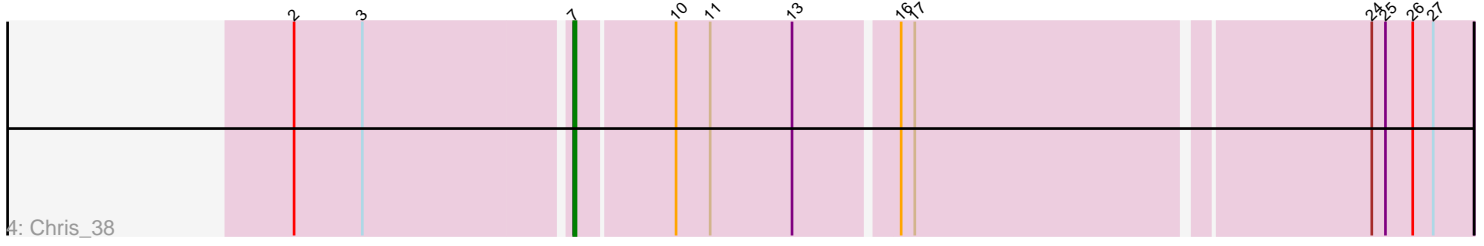
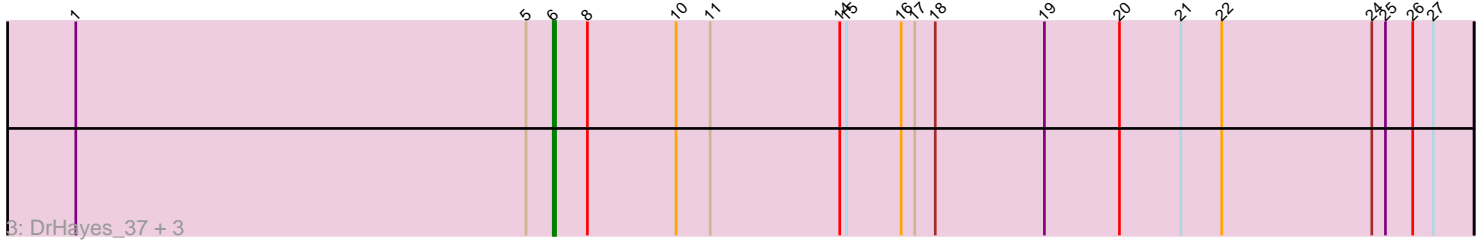
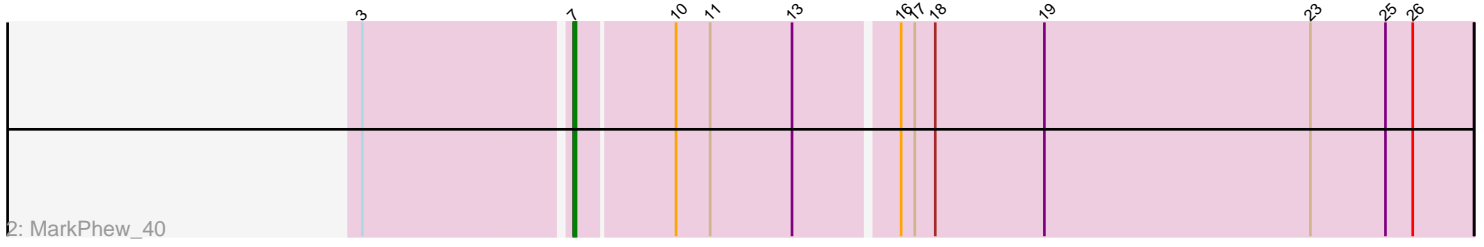
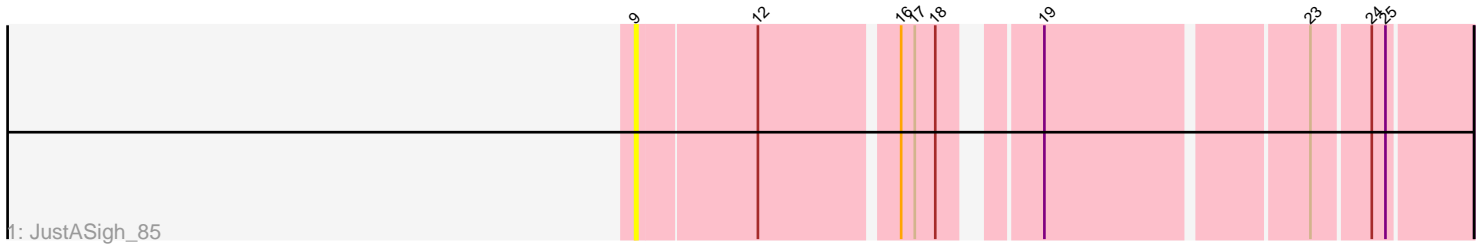


Pham 156797



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 156797 Report

This analysis was run 04/12/24 on database version 558.

Pham number 156797 has 13 members, 1 are drafts.

Phages represented in each track:

- Track 1 : JustASigh_85
- Track 2 : MarkPhew_40
- Track 3 : DrHayes_37, SamuelLPlaqson_37, Urkel_37, TiniBug_37
- Track 4 : Chris_38
- Track 5 : Phrank_39, Cain_39, Tierra_39, Bryler_39
- Track 6 : PhelpsODU_38, Unicorn_38

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 8 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bryler_39, Cain_39, DrHayes_37, Phrank_39, SamuelLPlaqson_37, Tierra_39, TiniBug_37, Urkel_37,

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

- PhelpsODU_38, Unicorn_38,

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

- Chris_38, JustASigh_85, MarkPhew_40,

Summary by start number:

Start 4:

- Found in 6 of 13 (46.2%) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 33.3% of time when present
- Phage (with cluster) where this start called: PhelpsODU_38 (K6), Unicorn_38 (K6),

Start 6:

- Found in 10 of 13 (76.9%) of genes in pham
- Manual Annotations of this start: 8 of 12
- Called 80.0% of time when present

- Phage (with cluster) where this start called: Bryler_39 (K6), Cain_39 (K6), DrHayes_37 (K1), Phrank_39 (K6), SamuelLPlaqson_37 (K1), Tierra_39 (K6), TiniBug_37 (K1), Urkel_37 (K1),

Start 7:

- Found in 2 of 13 (15.4%) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chris_38 (K1), MarkPhew_40 (K1),

Start 9:

- Found in 1 of 13 (7.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JustASigh_85 (AH),

Summary by clusters:

There are 3 clusters represented in this pham: AH, K1, K6,

Info for manual annotations of cluster K1:

- Start number 6 was manually annotated 4 times for cluster K1.
- Start number 7 was manually annotated 2 times for cluster K1.

Info for manual annotations of cluster K6:

- Start number 4 was manually annotated 2 times for cluster K6.
- Start number 6 was manually annotated 4 times for cluster K6.

Gene Information:

Gene: Bryler_39 Start: 29886, Stop: 30266, Start Num: 6

Candidate Starts for Bryler_39:

(Start: 4 @29868 has 2 MA's), (Start: 6 @29886 has 8 MA's), (11, 29952), (13, 29988), (16, 30024), (17, 30030), (18, 30039), (19, 30087), (23, 30195), (25, 30228), (26, 30240), (27, 30249),

Gene: Cain_39 Start: 29874, Stop: 30254, Start Num: 6

Candidate Starts for Cain_39:

(Start: 4 @29856 has 2 MA's), (Start: 6 @29874 has 8 MA's), (11, 29940), (13, 29976), (16, 30012), (17, 30018), (18, 30027), (19, 30075), (23, 30183), (25, 30216), (26, 30228), (27, 30237),

Gene: Chris_38 Start: 30013, Stop: 30390, Start Num: 7

Candidate Starts for Chris_38:

(2, 29896), (3, 29926), (Start: 7 @30013 has 2 MA's), (10, 30055), (11, 30070), (13, 30106), (16, 30148), (17, 30154), (24, 30346), (25, 30352), (26, 30364), (27, 30373),

Gene: DrHayes_37 Start: 30131, Stop: 30535, Start Num: 6

Candidate Starts for DrHayes_37:

(1, 29921), (5, 30119), (Start: 6 @30131 has 8 MA's), (8, 30146), (10, 30185), (11, 30200), (14, 30257), (15, 30260), (16, 30284), (17, 30290), (18, 30299), (19, 30347), (20, 30380), (21, 30407), (22, 30425), (24, 30491), (25, 30497), (26, 30509), (27, 30518),

Gene: JustASigh_85 Start: 51554, Stop: 51225, Start Num: 9

Candidate Starts for JustASigh_85:

(9, 51554), (12, 51503), (16, 51446), (17, 51440), (18, 51431), (19, 51398), (23, 51290), (24, 51266), (25, 51260),

Gene: MarkPhew_40 Start: 30085, Stop: 30471, Start Num: 7

Candidate Starts for MarkPhew_40:

(3, 29998), (Start: 7 @30085 has 2 MA's), (10, 30127), (11, 30142), (13, 30178), (16, 30220), (17, 30226), (18, 30235), (19, 30283), (23, 30400), (25, 30433), (26, 30445),

Gene: PhelpsODU_38 Start: 29894, Stop: 30292, Start Num: 4

Candidate Starts for PhelpsODU_38:

(Start: 4 @29894 has 2 MA's), (Start: 6 @29912 has 8 MA's), (11, 29978), (13, 30014), (16, 30050), (17, 30056), (18, 30065), (19, 30113), (23, 30221), (25, 30254), (26, 30266), (27, 30275),

Gene: Phrank_39 Start: 29863, Stop: 30243, Start Num: 6

Candidate Starts for Phrank_39:

(Start: 4 @29845 has 2 MA's), (Start: 6 @29863 has 8 MA's), (11, 29929), (13, 29965), (16, 30001), (17, 30007), (18, 30016), (19, 30064), (23, 30172), (25, 30205), (26, 30217), (27, 30226),

Gene: SamuelLPlaqson_37 Start: 30131, Stop: 30535, Start Num: 6

Candidate Starts for SamuelLPlaqson_37:

(1, 29921), (5, 30119), (Start: 6 @30131 has 8 MA's), (8, 30146), (10, 30185), (11, 30200), (14, 30257), (15, 30260), (16, 30284), (17, 30290), (18, 30299), (19, 30347), (20, 30380), (21, 30407), (22, 30425), (24, 30491), (25, 30497), (26, 30509), (27, 30518),

Gene: Tierra_39 Start: 30583, Stop: 30963, Start Num: 6

Candidate Starts for Tierra_39:

(Start: 4 @30565 has 2 MA's), (Start: 6 @30583 has 8 MA's), (11, 30649), (13, 30685), (16, 30721), (17, 30727), (18, 30736), (19, 30784), (23, 30892), (25, 30925), (26, 30937), (27, 30946),

Gene: TiniBug_37 Start: 30127, Stop: 30531, Start Num: 6

Candidate Starts for TiniBug_37:

(1, 29917), (5, 30115), (Start: 6 @30127 has 8 MA's), (8, 30142), (10, 30181), (11, 30196), (14, 30253), (15, 30256), (16, 30280), (17, 30286), (18, 30295), (19, 30343), (20, 30376), (21, 30403), (22, 30421), (24, 30487), (25, 30493), (26, 30505), (27, 30514),

Gene: Unicorn_38 Start: 29894, Stop: 30292, Start Num: 4

Candidate Starts for Unicorn_38:

(Start: 4 @29894 has 2 MA's), (Start: 6 @29912 has 8 MA's), (11, 29978), (13, 30014), (16, 30050), (17, 30056), (18, 30065), (19, 30113), (23, 30221), (25, 30254), (26, 30266), (27, 30275),

Gene: Urkel_37 Start: 30131, Stop: 30535, Start Num: 6

Candidate Starts for Urkel_37:

(1, 29921), (5, 30119), (Start: 6 @30131 has 8 MA's), (8, 30146), (10, 30185), (11, 30200), (14, 30257), (15, 30260), (16, 30284), (17, 30290), (18, 30299), (19, 30347), (20, 30380), (21, 30407), (22, 30425), (24, 30491), (25, 30497), (26, 30509), (27, 30518),