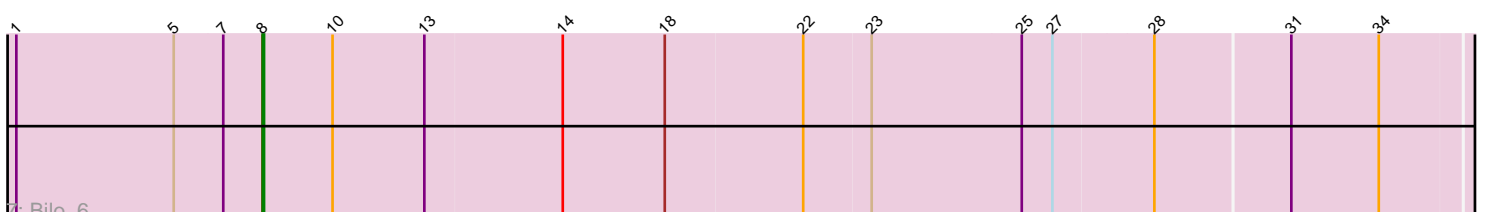
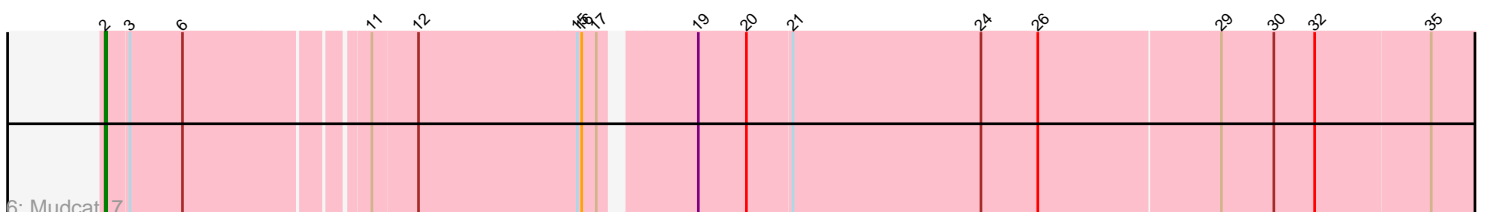
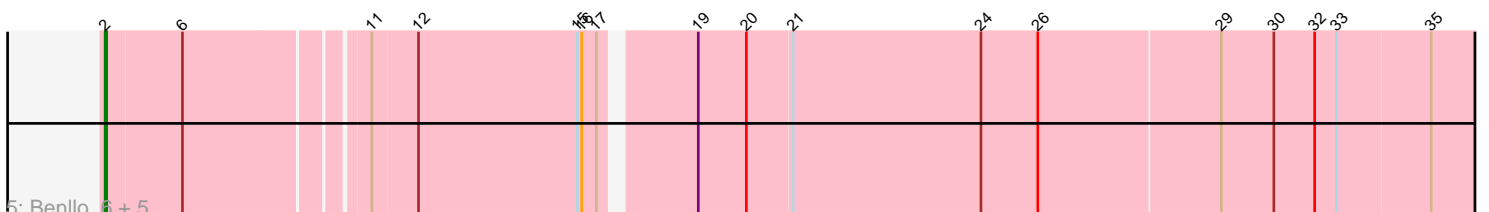
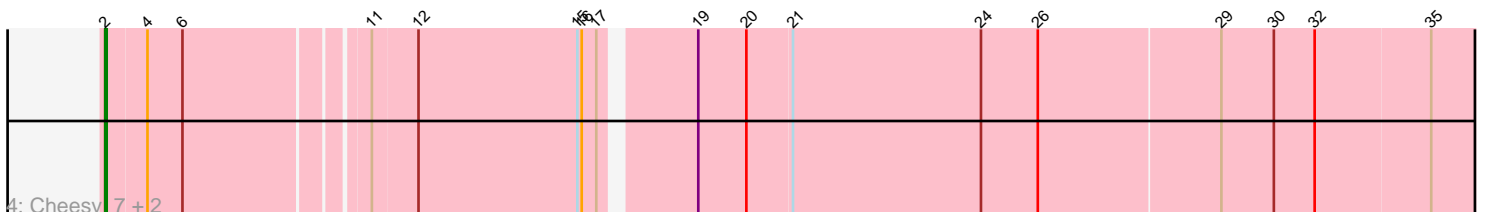
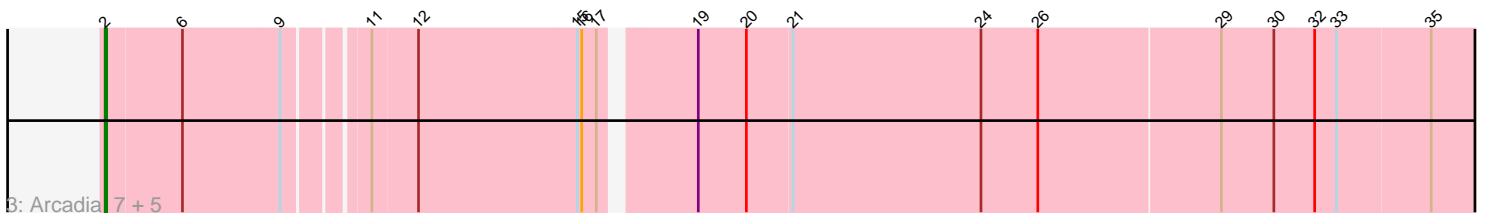
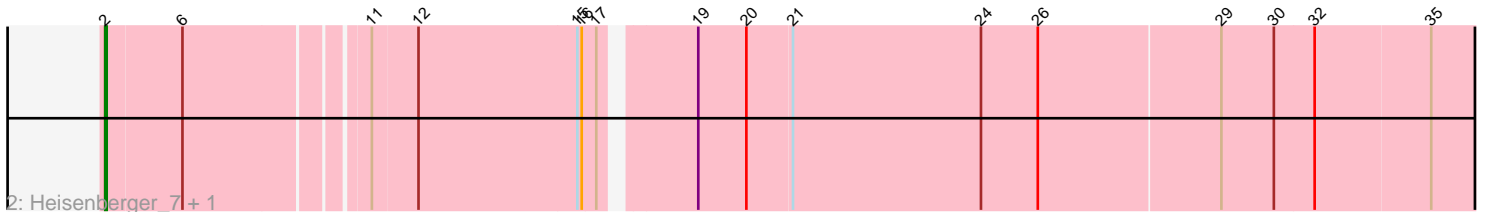
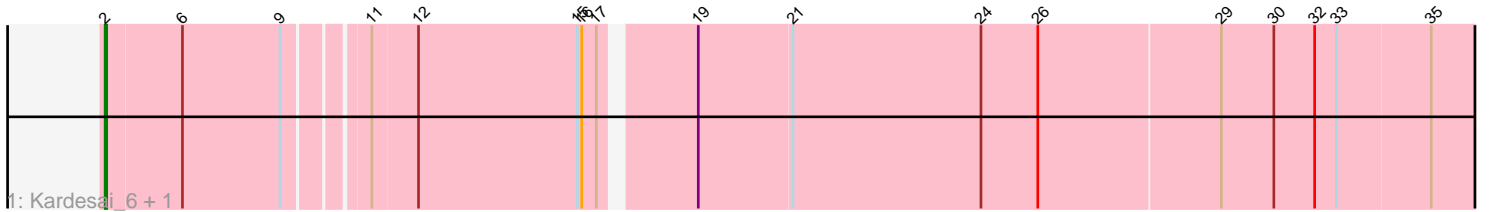


Pham 158177



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 158177 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158177 has 21 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Kardesai_6, Mooshroom_6
- Track 2 : Heisenberger_7, JEGGS_7
- Track 3 : Arcadia_7, Nason_7, Tribby_7, Dynamite_7, NapoleonB_7, Elsa_7
- Track 4 : Cheesy_7, Correa_7, Xenomorph_6
- Track 5 : Benllo_6, BenitoAntonio_7, Circum_7, KeaneyLin_6, GoCrazy_6, Hankly_6
- Track 6 : Mudcat_7
- Track 7 : Bilo_6

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

The start number called the most often in the published annotations is 2, it was called in 18 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia_7, BenitoAntonio_7, Benllo_6, Cheesy_7, Circum_7, Correa_7, Dynamite_7, Elsa_7, GoCrazy_6, Hankly_6, Heisenberger_7, JEGGS_7, Kardesai_6, KeaneyLin_6, Mooshroom_6, Mudcat_7, NapoleonB_7, Nason_7, Tribby_7, Xenomorph_6,

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

-

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

- Bilo_6,

Summary by start number:

Start 2:

- Found in 20 of 21 (95.2%) of genes in pham
- Manual Annotations of this start: 18 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arcadia_7 (AM), BenitoAntonio_7 (AM), Benllo_6 (AM), Cheesy_7 (AM), Circum_7 (AM), Correa_7 (AM), Dynamite_7 (AM),

Elsa_7 (AM), GoCrazy_6 (AM), Hankly_6 (AM), Heisenberger_7 (AM), JEGGS_7 (AM), Kardesai_6 (AM), KeaneyLin_6 (AM), Mooshroom_6 (AM), Mudcat_7 (AM), NapoleonB_7 (AM), Nason_7 (AM), Tribby_7 (AM), Xenomorph_6 (AM),

Start 8:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bilo_6 (BI2),

Summary by clusters:

There are 2 clusters represented in this pham: BI2, AM,

Info for manual annotations of cluster AM:

- Start number 2 was manually annotated 18 times for cluster AM.

Info for manual annotations of cluster BI2:

- Start number 8 was manually annotated 1 time for cluster BI2.

Gene Information:

Gene: Arcadia_7 Start: 3209, Stop: 4216, Start Num: 2

Candidate Starts for Arcadia_7:

(Start: 2 @3209 has 18 MA's), (6, 3260), (9, 3326), (11, 3374), (12, 3404), (15, 3512), (16, 3515), (17, 3524), (19, 3578), (20, 3611), (21, 3641), (24, 3770), (26, 3809), (29, 3932), (30, 3968), (32, 3995), (33, 4010), (35, 4073),

Gene: BenitoAntonio_7 Start: 2817, Stop: 3824, Start Num: 2

Candidate Starts for BenitoAntonio_7:

(Start: 2 @2817 has 18 MA's), (6, 2868), (11, 2982), (12, 3012), (15, 3120), (16, 3123), (17, 3132), (19, 3186), (20, 3219), (21, 3249), (24, 3378), (26, 3417), (29, 3540), (30, 3576), (32, 3603), (33, 3618), (35, 3681),

Gene: Benllo_6 Start: 2819, Stop: 3826, Start Num: 2

Candidate Starts for Benllo_6:

(Start: 2 @2819 has 18 MA's), (6, 2870), (11, 2984), (12, 3014), (15, 3122), (16, 3125), (17, 3134), (19, 3188), (20, 3221), (21, 3251), (24, 3380), (26, 3419), (29, 3542), (30, 3578), (32, 3605), (33, 3620), (35, 3683),

Gene: Bilo_6 Start: 2269, Stop: 3171, Start Num: 8

Candidate Starts for Bilo_6:

(1, 2101), (5, 2209), (7, 2242), (Start: 8 @2269 has 1 MA's), (10, 2317), (13, 2380), (14, 2473), (18, 2542), (22, 2635), (23, 2680), (25, 2782), (27, 2803), (28, 2869), (31, 2959), (34, 3019),

Gene: Cheesy_7 Start: 2819, Stop: 3826, Start Num: 2

Candidate Starts for Cheesy_7:

(Start: 2 @2819 has 18 MA's), (4, 2846), (6, 2870), (11, 2984), (12, 3014), (15, 3122), (16, 3125), (17, 3134), (19, 3188), (20, 3221), (21, 3251), (24, 3380), (26, 3419), (29, 3542), (30, 3578), (32, 3605), (35, 3683),

Gene: Circum_7 Start: 2819, Stop: 3826, Start Num: 2

Candidate Starts for Circum_7:

(Start: 2 @2819 has 18 MA's), (6, 2870), (11, 2984), (12, 3014), (15, 3122), (16, 3125), (17, 3134), (19, 3188), (20, 3221), (21, 3251), (24, 3380), (26, 3419), (29, 3542), (30, 3578), (32, 3605), (33, 3620), (35, 3683),

Gene: Correa_7 Start: 2819, Stop: 3826, Start Num: 2

Candidate Starts for Correa_7:

(Start: 2 @2819 has 18 MA's), (4, 2846), (6, 2870), (11, 2984), (12, 3014), (15, 3122), (16, 3125), (17, 3134), (19, 3188), (20, 3221), (21, 3251), (24, 3380), (26, 3419), (29, 3542), (30, 3578), (32, 3605), (35, 3683),

Gene: Dynamite_7 Start: 2819, Stop: 3826, Start Num: 2

Candidate Starts for Dynamite_7:

(Start: 2 @2819 has 18 MA's), (6, 2870), (9, 2936), (11, 2984), (12, 3014), (15, 3122), (16, 3125), (17, 3134), (19, 3188), (20, 3221), (21, 3251), (24, 3380), (26, 3419), (29, 3542), (30, 3578), (32, 3605), (33, 3620), (35, 3683),

Gene: Elsa_7 Start: 3209, Stop: 4216, Start Num: 2

Candidate Starts for Elsa_7:

(Start: 2 @3209 has 18 MA's), (6, 3260), (9, 3326), (11, 3374), (12, 3404), (15, 3512), (16, 3515), (17, 3524), (19, 3578), (20, 3611), (21, 3641), (24, 3770), (26, 3809), (29, 3932), (30, 3968), (32, 3995), (33, 4010), (35, 4073),

Gene: GoCrazy_6 Start: 2819, Stop: 3826, Start Num: 2

Candidate Starts for GoCrazy_6:

(Start: 2 @2819 has 18 MA's), (6, 2870), (11, 2984), (12, 3014), (15, 3122), (16, 3125), (17, 3134), (19, 3188), (20, 3221), (21, 3251), (24, 3380), (26, 3419), (29, 3542), (30, 3578), (32, 3605), (33, 3620), (35, 3683),

Gene: Hankly_6 Start: 2843, Stop: 3850, Start Num: 2

Candidate Starts for Hankly_6:

(Start: 2 @2843 has 18 MA's), (6, 2894), (11, 3008), (12, 3038), (15, 3146), (16, 3149), (17, 3158), (19, 3212), (20, 3245), (21, 3275), (24, 3404), (26, 3443), (29, 3566), (30, 3602), (32, 3629), (33, 3644), (35, 3707),

Gene: Heisenberger_7 Start: 2819, Stop: 3826, Start Num: 2

Candidate Starts for Heisenberger_7:

(Start: 2 @2819 has 18 MA's), (6, 2870), (11, 2984), (12, 3014), (15, 3122), (16, 3125), (17, 3134), (19, 3188), (20, 3221), (21, 3251), (24, 3380), (26, 3419), (29, 3542), (30, 3578), (32, 3605), (35, 3683),

Gene: JEGGS_7 Start: 2821, Stop: 3828, Start Num: 2

Candidate Starts for JEGGS_7:

(Start: 2 @2821 has 18 MA's), (6, 2872), (11, 2986), (12, 3016), (15, 3124), (16, 3127), (17, 3136), (19, 3190), (20, 3223), (21, 3253), (24, 3382), (26, 3421), (29, 3544), (30, 3580), (32, 3607), (35, 3685),

Gene: Kardesai_6 Start: 2819, Stop: 3826, Start Num: 2

Candidate Starts for Kardesai_6:

(Start: 2 @2819 has 18 MA's), (6, 2870), (9, 2936), (11, 2984), (12, 3014), (15, 3122), (16, 3125), (17, 3134), (19, 3188), (21, 3251), (24, 3380), (26, 3419), (29, 3542), (30, 3578), (32, 3605), (33, 3620), (35, 3683),

Gene: KeaneyLin_6 Start: 2819, Stop: 3826, Start Num: 2

Candidate Starts for KeaneyLin_6:

(Start: 2 @2819 has 18 MA's), (6, 2870), (11, 2984), (12, 3014), (15, 3122), (16, 3125), (17, 3134), (19, 3188), (20, 3221), (21, 3251), (24, 3380), (26, 3419), (29, 3542), (30, 3578), (32, 3605), (33, 3620), (35, 3683),

Gene: Mooshroom_6 Start: 2819, Stop: 3826, Start Num: 2

Candidate Starts for Mooshroom_6:

(Start: 2 @2819 has 18 MA's), (6, 2870), (9, 2936), (11, 2984), (12, 3014), (15, 3122), (16, 3125), (17, 3134), (19, 3188), (21, 3251), (24, 3380), (26, 3419), (29, 3542), (30, 3578), (32, 3605), (33, 3620), (35, 3683),

Gene: Mudcat_7 Start: 2820, Stop: 3827, Start Num: 2

Candidate Starts for Mudcat_7:

(Start: 2 @2820 has 18 MA's), (3, 2835), (6, 2871), (11, 2985), (12, 3015), (15, 3123), (16, 3126), (17, 3135), (19, 3189), (20, 3222), (21, 3252), (24, 3381), (26, 3420), (29, 3543), (30, 3579), (32, 3606), (35, 3684),

Gene: NapoleonB_7 Start: 2819, Stop: 3826, Start Num: 2

Candidate Starts for NapoleonB_7:

(Start: 2 @2819 has 18 MA's), (6, 2870), (9, 2936), (11, 2984), (12, 3014), (15, 3122), (16, 3125), (17, 3134), (19, 3188), (20, 3221), (21, 3251), (24, 3380), (26, 3419), (29, 3542), (30, 3578), (32, 3605), (33, 3620), (35, 3683),

Gene: Nason_7 Start: 3209, Stop: 4216, Start Num: 2

Candidate Starts for Nason_7:

(Start: 2 @3209 has 18 MA's), (6, 3260), (9, 3326), (11, 3374), (12, 3404), (15, 3512), (16, 3515), (17, 3524), (19, 3578), (20, 3611), (21, 3641), (24, 3770), (26, 3809), (29, 3932), (30, 3968), (32, 3995), (33, 4010), (35, 4073),

Gene: Tribby_7 Start: 2819, Stop: 3826, Start Num: 2

Candidate Starts for Tribby_7:

(Start: 2 @2819 has 18 MA's), (6, 2870), (9, 2936), (11, 2984), (12, 3014), (15, 3122), (16, 3125), (17, 3134), (19, 3188), (20, 3221), (21, 3251), (24, 3380), (26, 3419), (29, 3542), (30, 3578), (32, 3605), (33, 3620), (35, 3683),

Gene: Xenomorph_6 Start: 2819, Stop: 3826, Start Num: 2

Candidate Starts for Xenomorph_6:

(Start: 2 @2819 has 18 MA's), (4, 2846), (6, 2870), (11, 2984), (12, 3014), (15, 3122), (16, 3125), (17, 3134), (19, 3188), (20, 3221), (21, 3251), (24, 3380), (26, 3419), (29, 3542), (30, 3578), (32, 3605), (35, 3683),