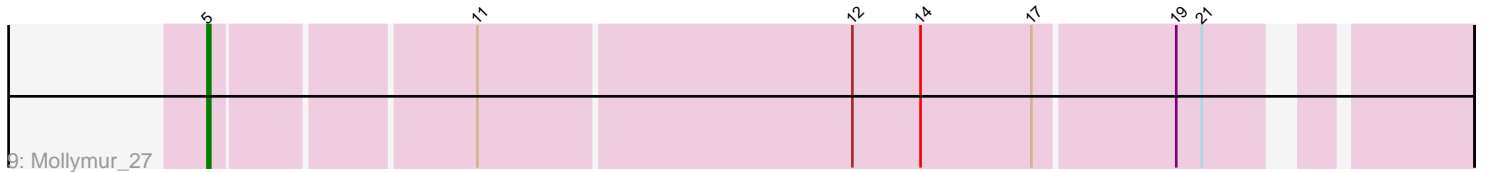
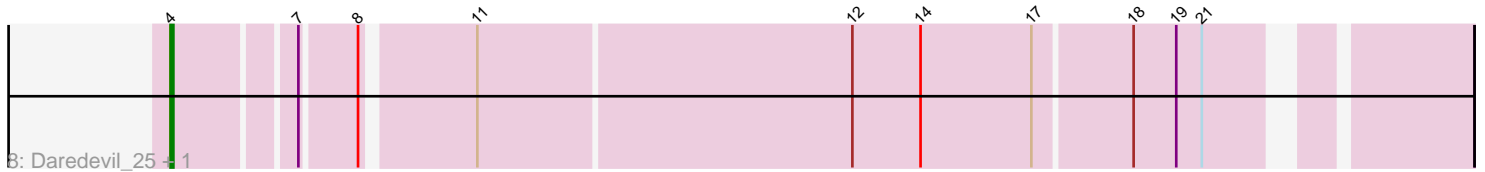
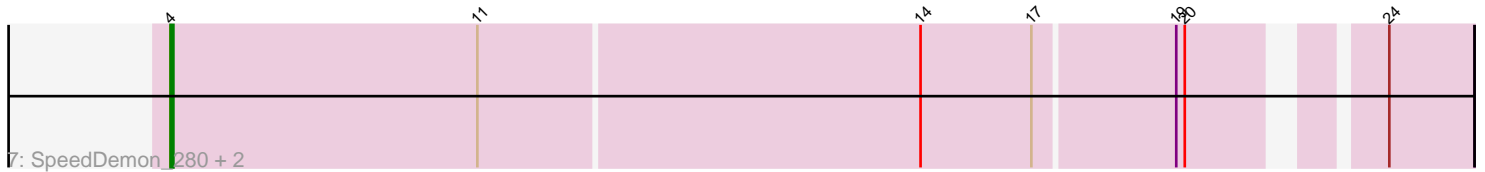
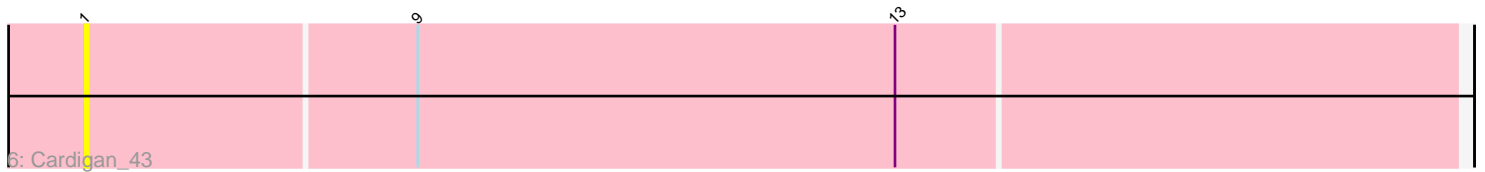
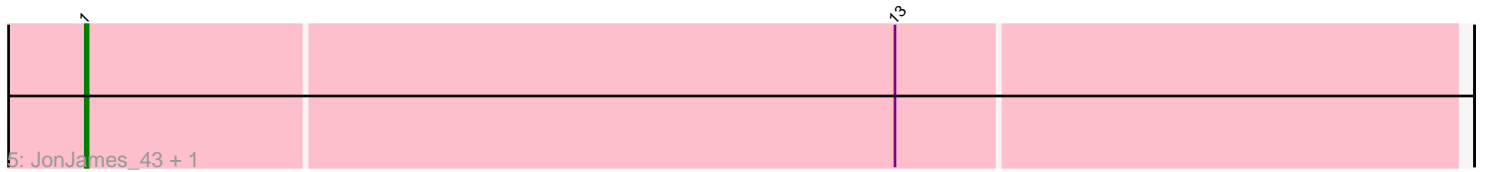
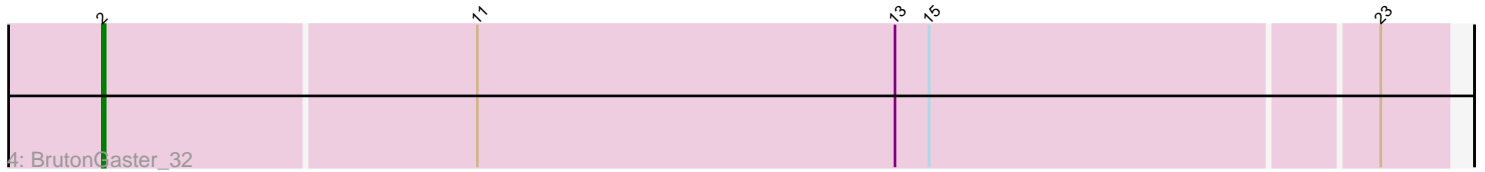
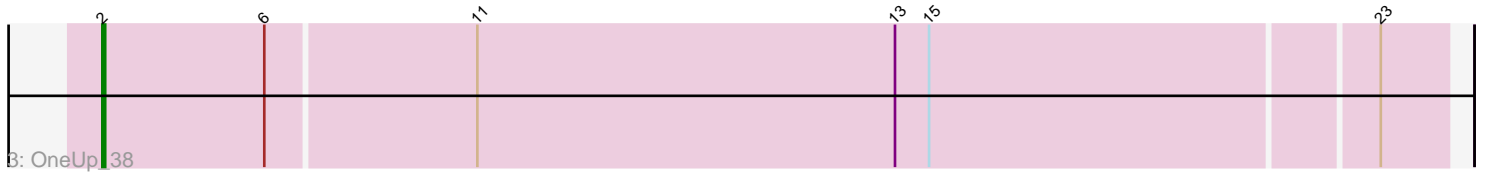
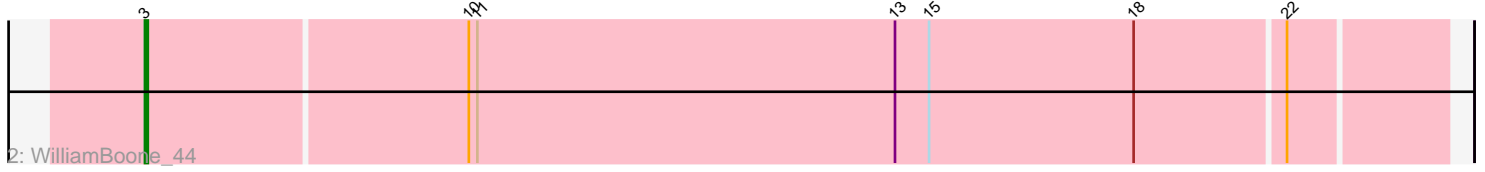
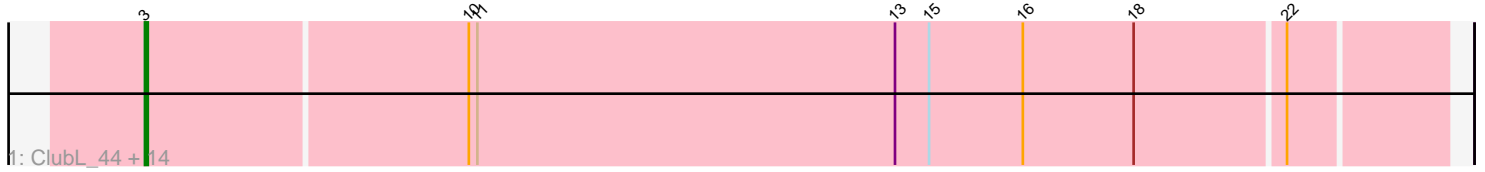


Pham 224821



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 224821 Report

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

Pham number 224821 has 27 members, 4 are drafts.

Phages represented in each track:

- Track 1 : ClubL_44, Aphelion_44, Toniann_44, Geeche_43, Norvs_45, Bachita_46, Smoothie_45, Dusty_42, Culver_44, Abscondus_43, Cucurbita_46, PhinkBoden_44, Miskis_42, Lozinak_44, Engineer_46
- Track 2 : WilliamBoone_44
- Track 3 : OneUp_38
- Track 4 : BrutonGaster_32
- Track 5 : JonJames_43, Yvonnetastic_41
- Track 6 : Cardigan_43
- Track 7 : SpeedDemon_280, Bantam_26, DatBoi_27
- Track 8 : Daredevil_25, Towmatter_25
- Track 9 : Mollymur_27

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

The start number called the most often in the published annotations is 3, it was called in 14 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_43, Aphelion_44, Bachita_46, ClubL_44, Cucurbita_46, Culver_44, Dusty_42, Engineer_46, Geeche_43, Lozinak_44, Miskis_42, Norvs_45, PhinkBoden_44, Smoothie_45, Toniann_44, WilliamBoone_44,

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

-

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

- Bantam_26, BrutonGaster_32, Cardigan_43, Daredevil_25, DatBoi_27, JonJames_43, Mollymur_27, OneUp_38, SpeedDemon_280, Towmatter_25, Yvonnetastic_41,

Summary by start number:

Start 1:

- Found in 3 of 27 (11.1%) of genes in pham

- Manual Annotations of this start: 2 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan_43 (DD), JonJames_43 (DD), Yvonnestic_41 (DD),

Start 2:

- Found in 2 of 27 (7.4%) of genes in pham
- Manual Annotations of this start: 2 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrutonGaster_32 (CQ2), OneUp_38 (CQ2),

Start 3:

- Found in 16 of 27 (59.3%) of genes in pham
- Manual Annotations of this start: 14 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_43 (CQ1), Aphelion_44 (CQ1), Bachita_46 (CQ1), ClubL_44 (CQ1), Cucurbita_46 (CQ1), Culver_44 (CQ1), Dusty_42 (CQ1), Engineer_46 (CQ1), Geeche_43 (CQ1), Lozinak_44 (CQ1), Miskis_42 (CQ1), Norvs_45 (CQ1), PhinkBoden_44 (CQ1), Smoothie_45 (CQ1), Toniann_44 (CQ1), WilliamBoone_44 (CQ1),

Start 4:

- Found in 5 of 27 (18.5%) of genes in pham
- Manual Annotations of this start: 4 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bantam_26 (DL), Daredevil_25 (DL), DatBoi_27 (DL), SpeedDemon_280 (DL), Towmatter_25 (DL),

Start 5:

- Found in 1 of 27 (3.7%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mollymur_27 (DL),

Summary by clusters:

There are 4 clusters represented in this pham: CQ2, DL, CQ1, DD,

Info for manual annotations of cluster CQ1:

- Start number 3 was manually annotated 14 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 2 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster DD:

- Start number 1 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DL:

- Start number 4 was manually annotated 4 times for cluster DL.
- Start number 5 was manually annotated 1 time for cluster DL.

Gene Information:

Gene: Abscondus_43 Start: 18658, Stop: 19107, Start Num: 3

Candidate Starts for Abscondus_43:

(Start: 3 @18658 has 14 MA's), (10, 18769), (11, 18772), (13, 18919), (15, 18931), (16, 18964), (18, 19003), (22, 19054),

Gene: Aphelion_44 Start: 18927, Stop: 19376, Start Num: 3

Candidate Starts for Aphelion_44:

(Start: 3 @18927 has 14 MA's), (10, 19038), (11, 19041), (13, 19188), (15, 19200), (16, 19233), (18, 19272), (22, 19323),

Gene: Bachita_46 Start: 19360, Stop: 19809, Start Num: 3

Candidate Starts for Bachita_46:

(Start: 3 @19360 has 14 MA's), (10, 19471), (11, 19474), (13, 19621), (15, 19633), (16, 19666), (18, 19705), (22, 19756),

Gene: Bantam_26 Start: 16393, Stop: 16827, Start Num: 4

Candidate Starts for Bantam_26:

(Start: 4 @16393 has 4 MA's), (11, 16501), (14, 16654), (17, 16693), (19, 16741), (20, 16744), (24, 16798),

Gene: BrutonGaster_32 Start: 15537, Stop: 16001, Start Num: 2

Candidate Starts for BrutonGaster_32:

(Start: 2 @15537 has 2 MA's), (11, 15666), (13, 15813), (15, 15825), (23, 15978),

Gene: Cardigan_43 Start: 20567, Stop: 21043, Start Num: 1

Candidate Starts for Cardigan_43:

(Start: 1 @20567 has 2 MA's), (9, 20681), (13, 20849),

Gene: ClubL_44 Start: 18849, Stop: 19298, Start Num: 3

Candidate Starts for ClubL_44:

(Start: 3 @18849 has 14 MA's), (10, 18960), (11, 18963), (13, 19110), (15, 19122), (16, 19155), (18, 19194), (22, 19245),

Gene: Cucurbita_46 Start: 20219, Stop: 20668, Start Num: 3

Candidate Starts for Cucurbita_46:

(Start: 3 @20219 has 14 MA's), (10, 20330), (11, 20333), (13, 20480), (15, 20492), (16, 20525), (18, 20564), (22, 20615),

Gene: Culver_44 Start: 18658, Stop: 19107, Start Num: 3

Candidate Starts for Culver_44:

(Start: 3 @18658 has 14 MA's), (10, 18769), (11, 18772), (13, 18919), (15, 18931), (16, 18964), (18, 19003), (22, 19054),

Gene: Daredevil_25 Start: 14796, Stop: 15215, Start Num: 4

Candidate Starts for Daredevil_25:

(Start: 4 @14796 has 4 MA's), (7, 14835), (8, 14853), (11, 14889), (12, 15018), (14, 15042), (17, 15081), (18, 15114), (19, 15129), (21, 15138),

Gene: DatBoi_27 Start: 17182, Stop: 17616, Start Num: 4

Candidate Starts for DatBoi_27:

(Start: 4 @17182 has 4 MA's), (11, 17290), (14, 17443), (17, 17482), (19, 17530), (20, 17533), (24, 17587),

Gene: Dusty_42 Start: 18658, Stop: 19107, Start Num: 3

Candidate Starts for Dusty_42:

(Start: 3 @18658 has 14 MA's), (10, 18769), (11, 18772), (13, 18919), (15, 18931), (16, 18964), (18, 19003), (22, 19054),

Gene: Engineer_46 Start: 18875, Stop: 19324, Start Num: 3

Candidate Starts for Engineer_46:

(Start: 3 @18875 has 14 MA's), (10, 18986), (11, 18989), (13, 19136), (15, 19148), (16, 19181), (18, 19220), (22, 19271),

Gene: Geeche_43 Start: 18749, Stop: 19198, Start Num: 3

Candidate Starts for Geeche_43:

(Start: 3 @18749 has 14 MA's), (10, 18860), (11, 18863), (13, 19010), (15, 19022), (16, 19055), (18, 19094), (22, 19145),

Gene: JonJames_43 Start: 22784, Stop: 23260, Start Num: 1

Candidate Starts for JonJames_43:

(Start: 1 @22784 has 2 MA's), (13, 23066),

Gene: Lozinak_44 Start: 18930, Stop: 19379, Start Num: 3

Candidate Starts for Lozinak_44:

(Start: 3 @18930 has 14 MA's), (10, 19041), (11, 19044), (13, 19191), (15, 19203), (16, 19236), (18, 19275), (22, 19326),

Gene: Miskis_42 Start: 18693, Stop: 19142, Start Num: 3

Candidate Starts for Miskis_42:

(Start: 3 @18693 has 14 MA's), (10, 18804), (11, 18807), (13, 18954), (15, 18966), (16, 18999), (18, 19038), (22, 19089),

Gene: Mollymur_27 Start: 17282, Stop: 17695, Start Num: 5

Candidate Starts for Mollymur_27:

(Start: 5 @17282 has 1 MA's), (11, 17369), (12, 17498), (14, 17522), (17, 17561), (19, 17609), (21, 17618),

Gene: Norvs_45 Start: 18932, Stop: 19381, Start Num: 3

Candidate Starts for Norvs_45:

(Start: 3 @18932 has 14 MA's), (10, 19043), (11, 19046), (13, 19193), (15, 19205), (16, 19238), (18, 19277), (22, 19328),

Gene: OneUp_38 Start: 16642, Stop: 17106, Start Num: 2

Candidate Starts for OneUp_38:

(Start: 2 @16642 has 2 MA's), (6, 16699), (11, 16771), (13, 16918), (15, 16930), (23, 17083),

Gene: PhinkBoden_44 Start: 19313, Stop: 19762, Start Num: 3

Candidate Starts for PhinkBoden_44:

(Start: 3 @19313 has 14 MA's), (10, 19424), (11, 19427), (13, 19574), (15, 19586), (16, 19619), (18, 19658), (22, 19709),

Gene: Smoothie_45 Start: 18930, Stop: 19379, Start Num: 3

Candidate Starts for Smoothie_45:

(Start: 3 @18930 has 14 MA's), (10, 19041), (11, 19044), (13, 19191), (15, 19203), (16, 19236), (18, 19275), (22, 19326),

Gene: SpeedDemon_280 Start: 18239, Stop: 18673, Start Num: 4

Candidate Starts for SpeedDemon_280:

(Start: 4 @18239 has 4 MA's), (11, 18347), (14, 18500), (17, 18539), (19, 18587), (20, 18590), (24, 18644),

Gene: Toniann_44 Start: 18875, Stop: 19324, Start Num: 3

Candidate Starts for Toniann_44:

(Start: 3 @18875 has 14 MA's), (10, 18986), (11, 18989), (13, 19136), (15, 19148), (16, 19181), (18, 19220), (22, 19271),

Gene: Towmatter_25 Start: 14618, Stop: 15037, Start Num: 4

Candidate Starts for Towmatter_25:

(Start: 4 @14618 has 4 MA's), (7, 14657), (8, 14675), (11, 14711), (12, 14840), (14, 14864), (17, 14903), (18, 14936), (19, 14951), (21, 14960),

Gene: WilliamBoone_44 Start: 18239, Stop: 18688, Start Num: 3

Candidate Starts for WilliamBoone_44:

(Start: 3 @18239 has 14 MA's), (10, 18350), (11, 18353), (13, 18500), (15, 18512), (18, 18584), (22, 18635),

Gene: Yvonnetastic_41 Start: 20319, Stop: 20795, Start Num: 1

Candidate Starts for Yvonnetastic_41:

(Start: 1 @20319 has 2 MA's), (13, 20601),