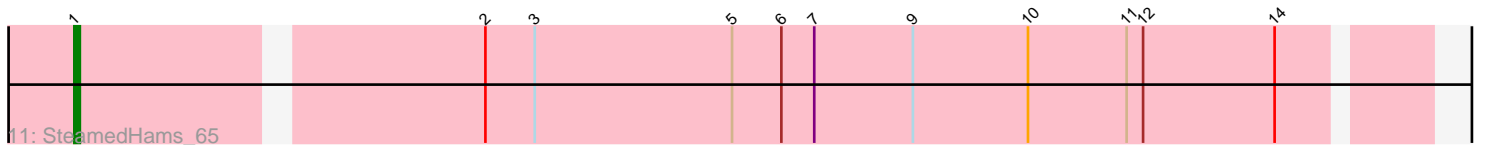
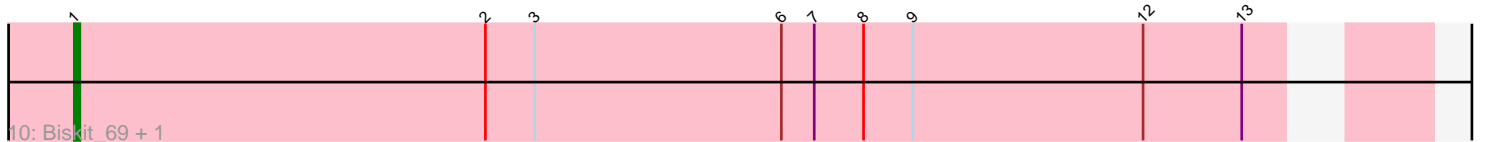
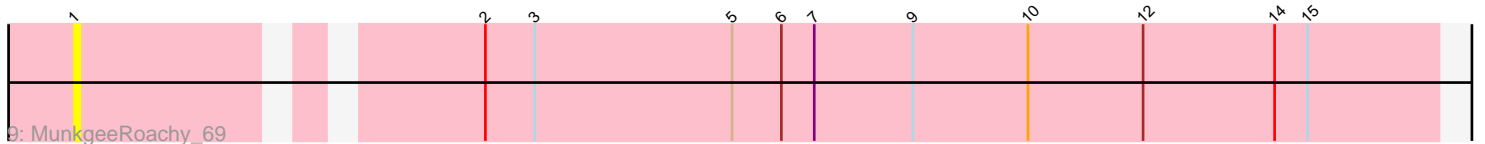
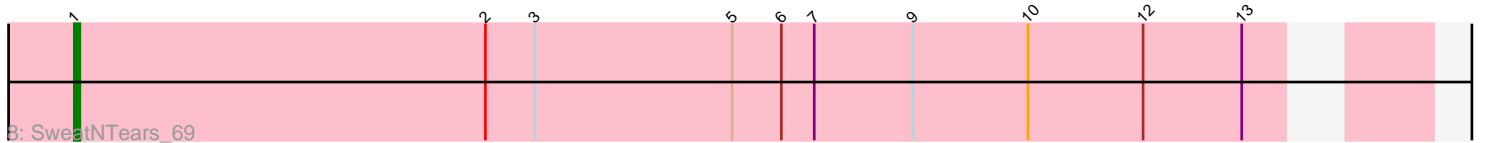
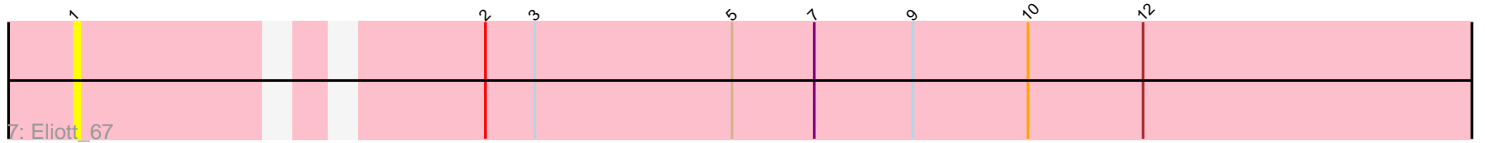
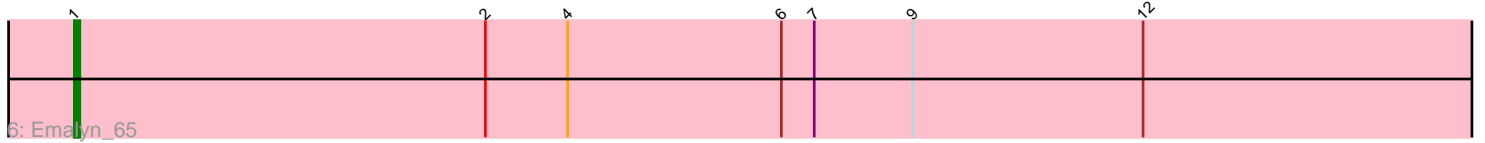
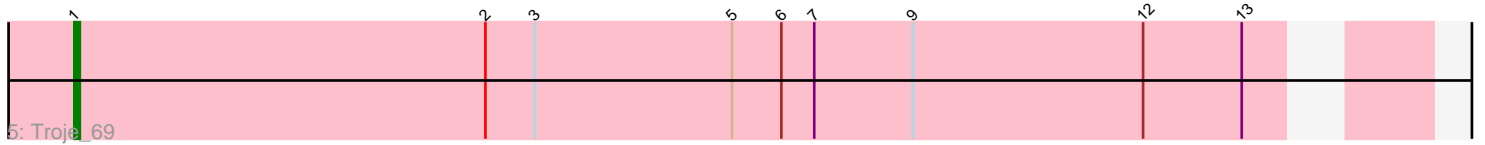
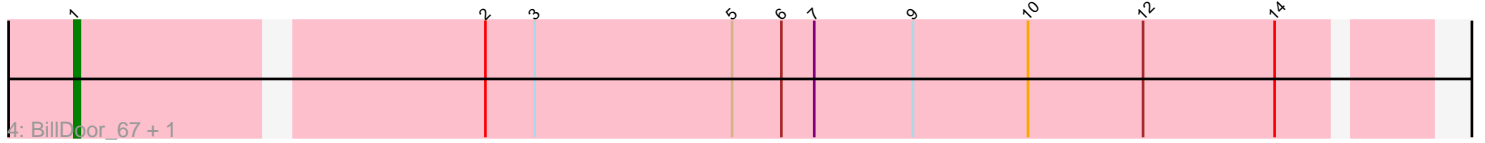
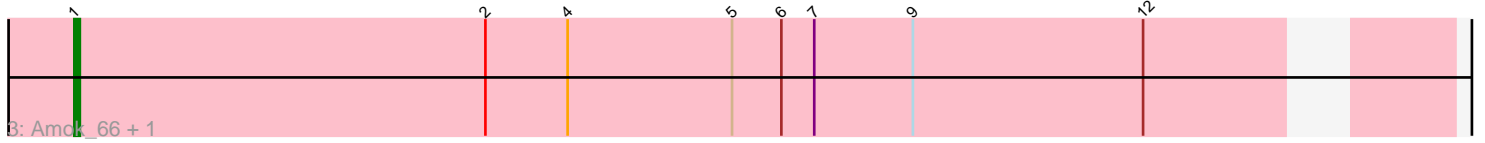
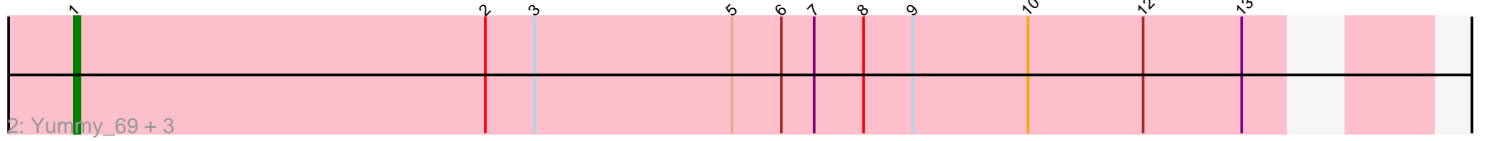
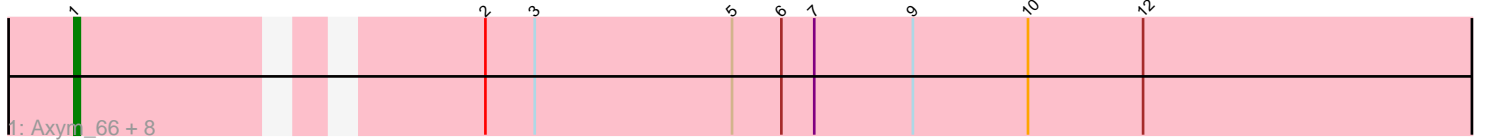


Pham 163881



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 163881 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163881 has 25 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Axym_66, Sopespian_64, Typhonmarchy_68, GoldHunter_69, PsychoKiller_66, Nina_67, Agatha_68, Cozz_67, RedBaron_73
- Track 2 : Yummy_69, Buttrmlkdreams_69, Horseradish_69, MScarn_71
- Track 3 : Amok_66, AikoCarson_67
- Track 4 : BillDoor_67, Tolls_66
- Track 5 : Troje_69
- Track 6 : Emalyn_65
- Track 7 : Elliott_67
- Track 8 : SweatNTears_69
- Track 9 : MunkgeeRoachy_69
- Track 10 : Biskit_69, SketchMex_67
- Track 11 : SteamedHams_65

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

The start number called the most often in the published annotations is 1, it was called in 18 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agatha_68, AikoCarson_67, Amok_66, Axym_66, BillDoor_67, Biskit_69, Buttrmlkdreams_69, Cozz_67, Elliott_67, Emalyn_65, GoldHunter_69, Horseradish_69, MScarn_71, MunkgeeRoachy_69, Nina_67, PsychoKiller_66, RedBaron_73, SketchMex_67, Sopespian_64, SteamedHams_65, SweatNTears_69, Tolls_66, Troje_69, Typhonmarchy_68, Yummy_69,

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

-

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

-

Summary by start number:

Start 1:

- Found in 25 of 25 (100.0%) of genes in pham
- Manual Annotations of this start: 18 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agatha_68 (CT), AikoCarson_67 (CT), Amok_66 (CT), Axym_66 (CT), BillDoor_67 (CT), Biskit_69 (CT), Buttrmlkdreams_69 (CT), Cozz_67 (CT), Elliott_67 (CT), Emalyn_65 (CT), GoldHunter_69 (CT), Horseradish_69 (CT), MScarn_71 (CT), MunkgeeRoachy_69 (CT), Nina_67 (CT), PsychoKiller_66 (CT), RedBaron_73 (CT), SketchMex_67 (CT), Sopespian_64 (CT), SteamedHams_65 (CT), SweatNTears_69 (CT), Tolls_66 (CT), Troje_69 (CT), Typhonomachy_68 (CT), Yummy_69 (CT),

Summary by clusters:

There is one cluster represented in this pham: CT

Info for manual annotations of cluster CT:

- Start number 1 was manually annotated 18 times for cluster CT.

Gene Information:

Gene: Agatha_68 Start: 45224, Stop: 45496, Start Num: 1

Candidate Starts for Agatha_68:

(Start: 1 @45224 has 18 MA's), (2, 45287), (3, 45296), (5, 45332), (6, 45341), (7, 45347), (9, 45365), (10, 45386), (12, 45407),

Gene: AikoCarson_67 Start: 44165, Stop: 44407, Start Num: 1

Candidate Starts for AikoCarson_67:

(Start: 1 @44165 has 18 MA's), (2, 44240), (4, 44255), (5, 44285), (6, 44294), (7, 44300), (9, 44318), (12, 44360),

Gene: Amok_66 Start: 44205, Stop: 44444, Start Num: 1

Candidate Starts for Amok_66:

(Start: 1 @44205 has 18 MA's), (2, 44280), (4, 44295), (5, 44325), (6, 44334), (7, 44340), (9, 44358), (12, 44400),

Gene: Axym_66 Start: 45099, Stop: 45371, Start Num: 1

Candidate Starts for Axym_66:

(Start: 1 @45099 has 18 MA's), (2, 45162), (3, 45171), (5, 45207), (6, 45216), (7, 45222), (9, 45240), (10, 45261), (12, 45282),

Gene: BillDoor_67 Start: 43474, Stop: 43722, Start Num: 1

Candidate Starts for BillDoor_67:

(Start: 1 @43474 has 18 MA's), (2, 43543), (3, 43552), (5, 43588), (6, 43597), (7, 43603), (9, 43621), (10, 43642), (12, 43663), (14, 43687),

Gene: Biskit_69 Start: 44728, Stop: 44964, Start Num: 1

Candidate Starts for Biskit_69:

(Start: 1 @44728 has 18 MA's), (2, 44803), (3, 44812), (6, 44857), (7, 44863), (8, 44872), (9, 44881), (12, 44923), (13, 44941),

Gene: Buttrmlkdreams_69 Start: 44897, Stop: 45133, Start Num: 1

Candidate Starts for Buttrmlkdreams_69:

(Start: 1 @44897 has 18 MA's), (2, 44972), (3, 44981), (5, 45017), (6, 45026), (7, 45032), (8, 45041), (9, 45050), (10, 45071), (12, 45092), (13, 45110),

Gene: Cozz_67 Start: 45226, Stop: 45498, Start Num: 1

Candidate Starts for Cozz_67:

(Start: 1 @45226 has 18 MA's), (2, 45289), (3, 45298), (5, 45334), (6, 45343), (7, 45349), (9, 45367), (10, 45388), (12, 45409),

Gene: Elliott_67 Start: 44695, Stop: 44967, Start Num: 1

Candidate Starts for Elliott_67:

(Start: 1 @44695 has 18 MA's), (2, 44758), (3, 44767), (5, 44803), (7, 44818), (9, 44836), (10, 44857), (12, 44878),

Gene: Emalyn_65 Start: 42894, Stop: 43148, Start Num: 1

Candidate Starts for Emalyn_65:

(Start: 1 @42894 has 18 MA's), (2, 42969), (4, 42984), (6, 43023), (7, 43029), (9, 43047), (12, 43089),

Gene: GoldHunter_69 Start: 45215, Stop: 45487, Start Num: 1

Candidate Starts for GoldHunter_69:

(Start: 1 @45215 has 18 MA's), (2, 45278), (3, 45287), (5, 45323), (6, 45332), (7, 45338), (9, 45356), (10, 45377), (12, 45398),

Gene: Horseradish_69 Start: 44661, Stop: 44897, Start Num: 1

Candidate Starts for Horseradish_69:

(Start: 1 @44661 has 18 MA's), (2, 44736), (3, 44745), (5, 44781), (6, 44790), (7, 44796), (8, 44805), (9, 44814), (10, 44835), (12, 44856), (13, 44874),

Gene: MScarn_71 Start: 44575, Stop: 44811, Start Num: 1

Candidate Starts for MScarn_71:

(Start: 1 @44575 has 18 MA's), (2, 44650), (3, 44659), (5, 44695), (6, 44704), (7, 44710), (8, 44719), (9, 44728), (10, 44749), (12, 44770), (13, 44788),

Gene: MunkgeeRoachy_69 Start: 44540, Stop: 44803, Start Num: 1

Candidate Starts for MunkgeeRoachy_69:

(Start: 1 @44540 has 18 MA's), (2, 44603), (3, 44612), (5, 44648), (6, 44657), (7, 44663), (9, 44681), (10, 44702), (12, 44723), (14, 44747), (15, 44753),

Gene: Nina_67 Start: 45298, Stop: 45570, Start Num: 1

Candidate Starts for Nina_67:

(Start: 1 @45298 has 18 MA's), (2, 45361), (3, 45370), (5, 45406), (6, 45415), (7, 45421), (9, 45439), (10, 45460), (12, 45481),

Gene: PsychoKiller_66 Start: 44696, Stop: 44968, Start Num: 1

Candidate Starts for PsychoKiller_66:

(Start: 1 @44696 has 18 MA's), (2, 44759), (3, 44768), (5, 44804), (6, 44813), (7, 44819), (9, 44837), (10, 44858), (12, 44879),

Gene: RedBaron_73 Start: 46122, Stop: 46394, Start Num: 1

Candidate Starts for RedBaron_73:

(Start: 1 @46122 has 18 MA's), (2, 46185), (3, 46194), (5, 46230), (6, 46239), (7, 46245), (9, 46263), (10, 46284), (12, 46305),

Gene: SketchMex_67 Start: 44728, Stop: 44964, Start Num: 1

Candidate Starts for SketchMex_67:

(Start: 1 @44728 has 18 MA's), (2, 44803), (3, 44812), (6, 44857), (7, 44863), (8, 44872), (9, 44881), (12, 44923), (13, 44941),

Gene: Sopespian_64 Start: 44697, Stop: 44969, Start Num: 1

Candidate Starts for Sopespian_64:

(Start: 1 @44697 has 18 MA's), (2, 44760), (3, 44769), (5, 44805), (6, 44814), (7, 44820), (9, 44838), (10, 44859), (12, 44880),

Gene: SteamedHams_65 Start: 43184, Stop: 43432, Start Num: 1

Candidate Starts for SteamedHams_65:

(Start: 1 @43184 has 18 MA's), (2, 43253), (3, 43262), (5, 43298), (6, 43307), (7, 43313), (9, 43331), (10, 43352), (11, 43370), (12, 43373), (14, 43397),

Gene: SweatNTears_69 Start: 44823, Stop: 45059, Start Num: 1

Candidate Starts for SweatNTears_69:

(Start: 1 @44823 has 18 MA's), (2, 44898), (3, 44907), (5, 44943), (6, 44952), (7, 44958), (9, 44976), (10, 44997), (12, 45018), (13, 45036),

Gene: Tolls_66 Start: 43455, Stop: 43703, Start Num: 1

Candidate Starts for Tolls_66:

(Start: 1 @43455 has 18 MA's), (2, 43524), (3, 43533), (5, 43569), (6, 43578), (7, 43584), (9, 43602), (10, 43623), (12, 43644), (14, 43668),

Gene: Troje_69 Start: 44798, Stop: 45034, Start Num: 1

Candidate Starts for Troje_69:

(Start: 1 @44798 has 18 MA's), (2, 44873), (3, 44882), (5, 44918), (6, 44927), (7, 44933), (9, 44951), (12, 44993), (13, 45011),

Gene: Typhonomachy_68 Start: 44923, Stop: 45186, Start Num: 1

Candidate Starts for Typhonomachy_68:

(Start: 1 @44923 has 18 MA's), (2, 44986), (3, 44995), (5, 45031), (6, 45040), (7, 45046), (9, 45064), (10, 45085), (12, 45106),

Gene: Yummy_69 Start: 44775, Stop: 45011, Start Num: 1

Candidate Starts for Yummy_69:

(Start: 1 @44775 has 18 MA's), (2, 44850), (3, 44859), (5, 44895), (6, 44904), (7, 44910), (8, 44919), (9, 44928), (10, 44949), (12, 44970), (13, 44988),