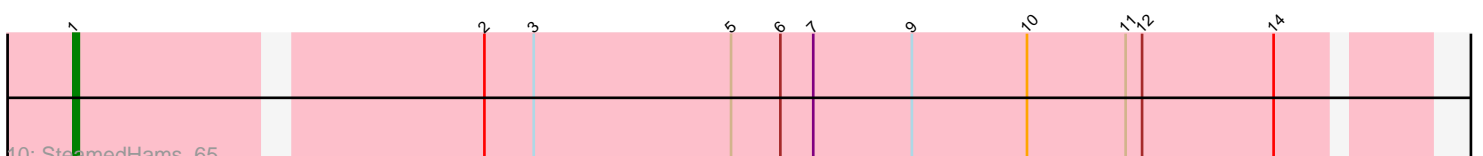
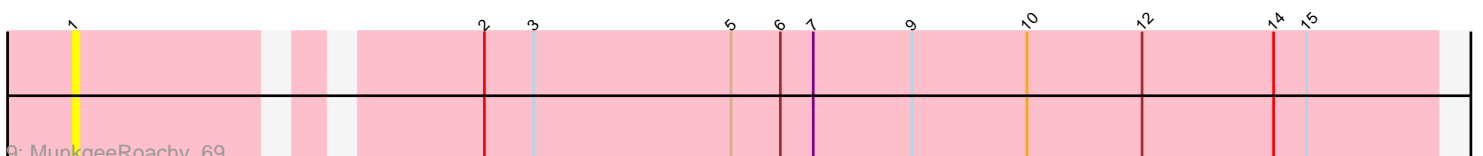
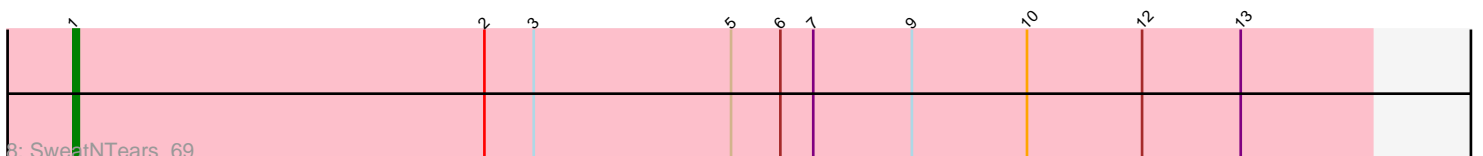
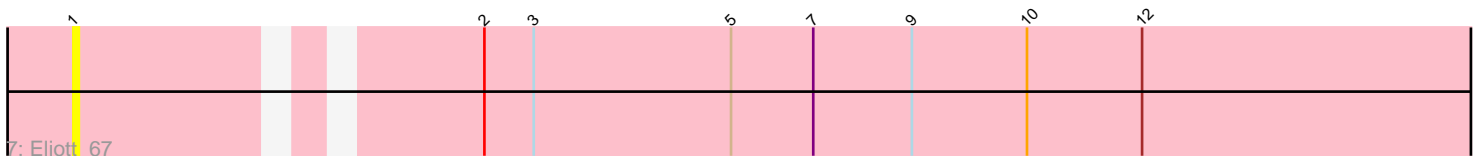
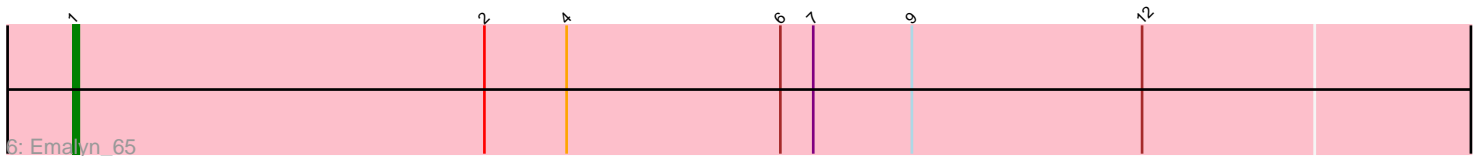
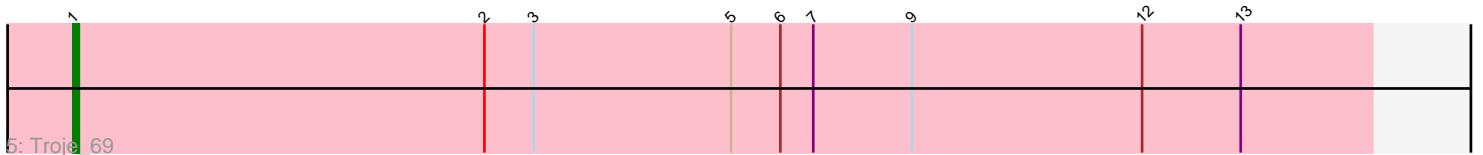
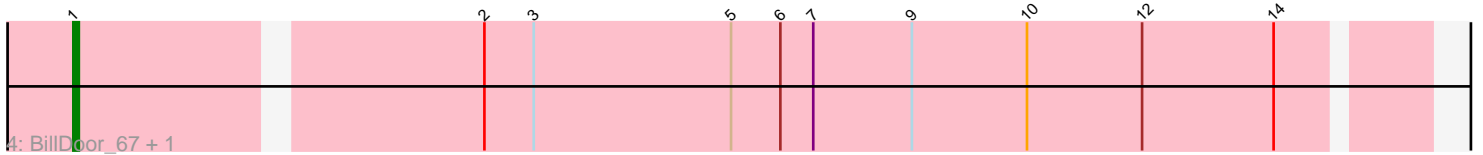
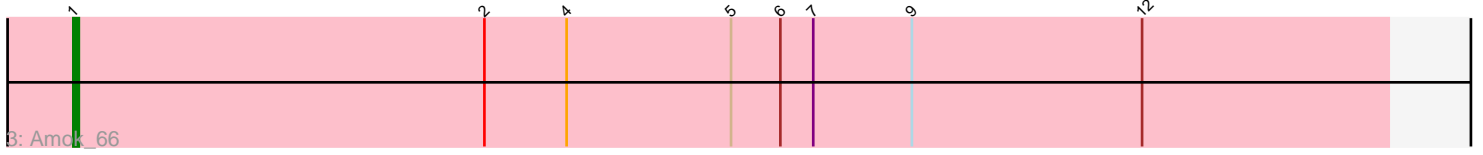
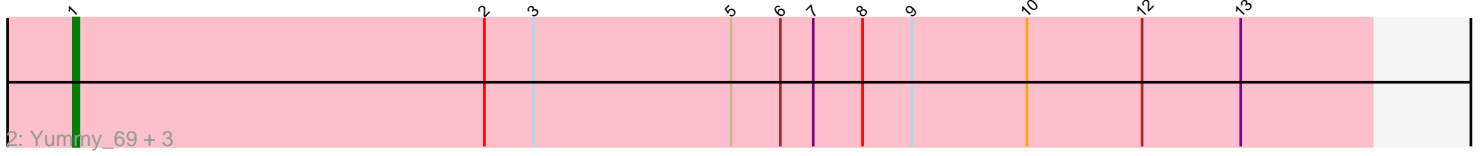
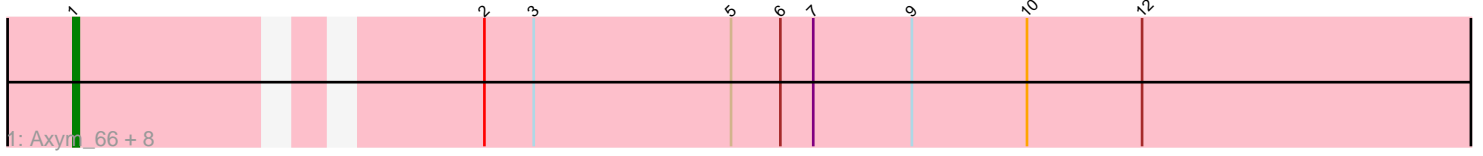


# Pham 158161



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 158161 Report

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

Pham number 158161 has 22 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Axym\_66, Sopespian\_64, Typhonomachy\_68, GoldHunter\_69, RedBaron\_73, Nina\_67, Agatha\_68, Cozz\_67, PsychoKiller\_66
- Track 2 : Yummy\_69, Buttrmlkdreams\_69, MScarn\_71, Horseradish\_69
- Track 3 : Amok\_66
- 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 : 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 15 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agatha\_68, Amok\_66, Axym\_66, BillDoor\_67, Buttrmlkdreams\_69, Cozz\_67, Elliott\_67, Emalyn\_65, GoldHunter\_69, Horseradish\_69, MScarn\_71, MunkgeeRoachy\_69, Nina\_67, PsychoKiller\_66, RedBaron\_73, Sopespian\_64, SteamedHams\_65, SweatNTears\_69, Tolls\_66, Troje\_69, Typhonomachy\_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 22 of 22 ( 100.0% ) of genes in pham

- Manual Annotations of this start: 15 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agatha\_68 (CT), Amok\_66 (CT), Axym\_66 (CT), BillDoor\_67 (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), Sopespian\_64 (CT), SteamedHams\_65 (CT), SweatNTears\_69 (CT), Tolls\_66 (CT), Troje\_69 (CT), Typhonmarchy\_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 15 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 15 MA's), (2, 45287), (3, 45296), (5, 45332), (6, 45341), (7, 45347), (9, 45365), (10, 45386), (12, 45407),

Gene: Amok\_66 Start: 44205, Stop: 44444, Start Num: 1

Candidate Starts for Amok\_66:

(Start: 1 @44205 has 15 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 15 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 15 MA's), (2, 43543), (3, 43552), (5, 43588), (6, 43597), (7, 43603), (9, 43621), (10, 43642), (12, 43663), (14, 43687),

Gene: Buttrmlkdreams\_69 Start: 44897, Stop: 45133, Start Num: 1

Candidate Starts for Buttrmlkdreams\_69:

(Start: 1 @44897 has 15 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 15 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 15 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 15 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 15 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 15 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 15 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 15 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 15 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 15 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 15 MA's), (2, 46185), (3, 46194), (5, 46230), (6, 46239), (7, 46245), (9, 46263), (10, 46284), (12, 46305),

Gene: Sopespian\_64 Start: 44697, Stop: 44969, Start Num: 1

Candidate Starts for Sopespian\_64:

(Start: 1 @44697 has 15 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 15 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 15 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 15 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 15 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 15 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 15 MA's), (2, 44850), (3, 44859), (5, 44895), (6, 44904), (7, 44910), (8, 44919), (9, 44928), (10, 44949), (12, 44970), (13, 44988),