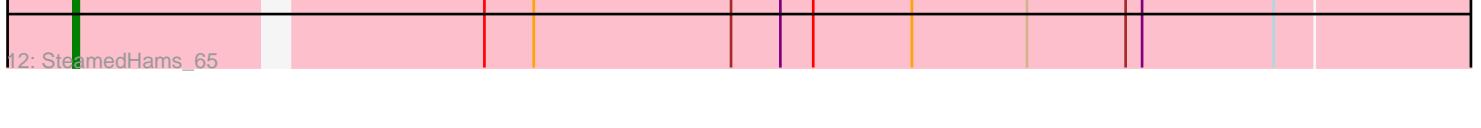
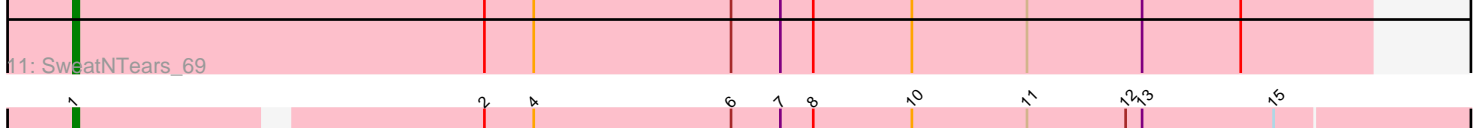
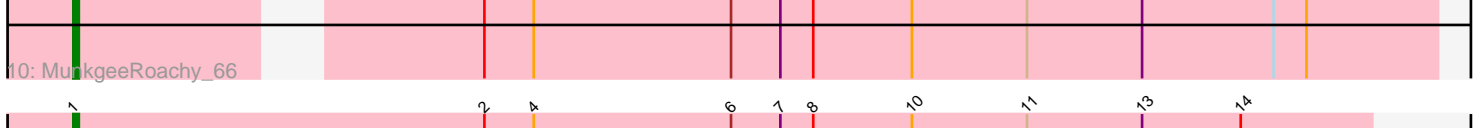
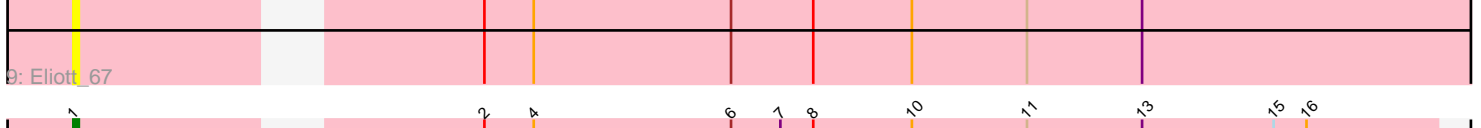
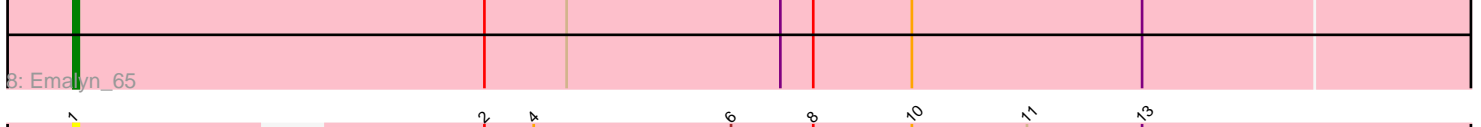
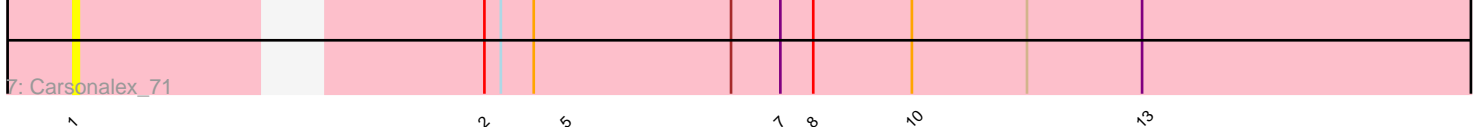
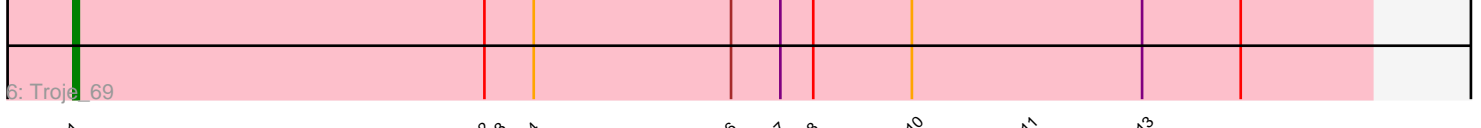
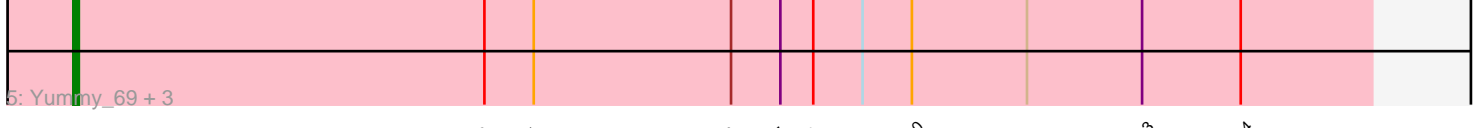
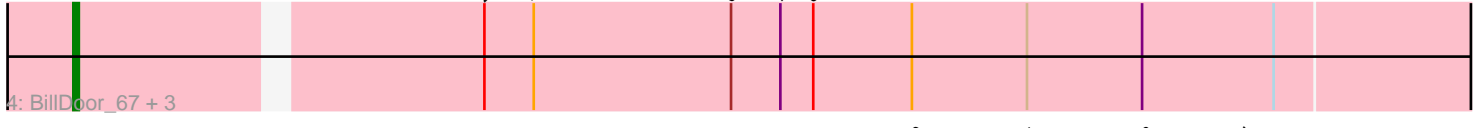
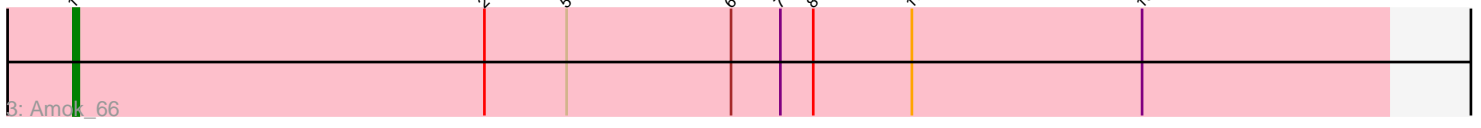
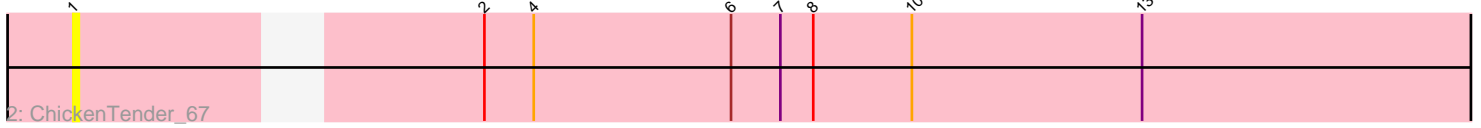
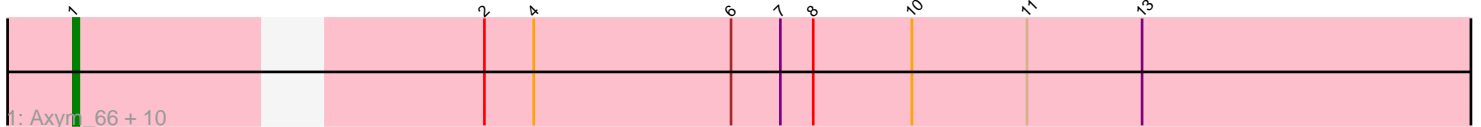


Pham 223355



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 223355 Report

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

Pham number 223355 has 28 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Axym_66, Typhonomachy_68, Sopespian_64, GoldHunter_69, PsychoKiller_66, Nina_67, Agatha_68, Cozz_67, Socotra_69, Starburst_69, RedBaron_73
- Track 2 : ChickenTender_67
- Track 3 : Amok_66
- Track 4 : BillDoor_67, ChocoMunchkin_63, Tolls_66, CanesSauce_63
- Track 5 : Yummy_69, Buttrmlkdreams_69, Horseradish_69, MScarn_71
- Track 6 : Troje_69
- Track 7 : Carsonalex_71
- Track 8 : Emalyn_65
- Track 9 : Elliott_67
- Track 10 : MunkgeeRoachy_66
- Track 11 : SweatNTears_69
- Track 12 : 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 16 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agatha_68, Amok_66, Axym_66, BillDoor_67, Buttrmlkdreams_69, CanesSauce_63, Carsonalex_71, ChickenTender_67, ChocoMunchkin_63, Cozz_67, Elliott_67, Emalyn_65, GoldHunter_69, Horseradish_69, MScarn_71, MunkgeeRoachy_66, Nina_67, PsychoKiller_66, RedBaron_73, Socotra_69, Sopespian_64, Starburst_69, 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 28 of 28 (100.0%) of genes in pham
- Manual Annotations of this start: 16 of 16
- 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), CanesSauce_63 (CT), Carsonalex_71 (CT), ChickenTender_67 (CT), ChocoMunchkin_63 (CT), Cozz_67 (CT), Elliott_67 (CT), Emalyn_65 (CT), GoldHunter_69 (CT), Horseradish_69 (CT), MScarn_71 (CT), MunkgeeRoachy_66 (CT), Nina_67 (CT), PsychoKiller_66 (CT), RedBaron_73 (CT), Socotra_69 (CT), Sopespian_64 (CT), Starburst_69 (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 16 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 16 MA's), (2, 45287), (4, 45296), (6, 45332), (7, 45341), (8, 45347), (10, 45365), (11, 45386), (13, 45407),

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

Candidate Starts for Amok_66:

(Start: 1 @44205 has 16 MA's), (2, 44280), (5, 44295), (6, 44325), (7, 44334), (8, 44340), (10, 44358), (13, 44400),

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

Candidate Starts for Axym_66:

(Start: 1 @45099 has 16 MA's), (2, 45162), (4, 45171), (6, 45207), (7, 45216), (8, 45222), (10, 45240), (11, 45261), (13, 45282),

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

Candidate Starts for BillDoor_67:

(Start: 1 @43474 has 16 MA's), (2, 43543), (4, 43552), (6, 43588), (7, 43597), (8, 43603), (10, 43621), (11, 43642), (13, 43663), (15, 43687),

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

Candidate Starts for Buttrmlkdreams_69:

(Start: 1 @44897 has 16 MA's), (2, 44972), (4, 44981), (6, 45017), (7, 45026), (8, 45032), (9, 45041), (10, 45050), (11, 45071), (13, 45092), (14, 45110),

Gene: CanesSauce_63 Start: 43368, Stop: 43616, Start Num: 1

Candidate Starts for CanesSauce_63:

(Start: 1 @43368 has 16 MA's), (2, 43437), (4, 43446), (6, 43482), (7, 43491), (8, 43497), (10, 43515), (11, 43536), (13, 43557), (15, 43581),

Gene: Carsonalex_71 Start: 45269, Stop: 45541, Start Num: 1

Candidate Starts for Carsonalex_71:

(Start: 1 @45269 has 16 MA's), (2, 45332), (3, 45335), (4, 45341), (6, 45377), (7, 45386), (8, 45392), (10, 45410), (11, 45431), (13, 45452),

Gene: ChickenTender_67 Start: 43889, Stop: 44161, Start Num: 1

Candidate Starts for ChickenTender_67:

(Start: 1 @43889 has 16 MA's), (2, 43952), (4, 43961), (6, 43997), (7, 44006), (8, 44012), (10, 44030), (13, 44072),

Gene: ChocoMunchkin_63 Start: 43368, Stop: 43616, Start Num: 1

Candidate Starts for ChocoMunchkin_63:

(Start: 1 @43368 has 16 MA's), (2, 43437), (4, 43446), (6, 43482), (7, 43491), (8, 43497), (10, 43515), (11, 43536), (13, 43557), (15, 43581),

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

Candidate Starts for Cozz_67:

(Start: 1 @45226 has 16 MA's), (2, 45289), (4, 45298), (6, 45334), (7, 45343), (8, 45349), (10, 45367), (11, 45388), (13, 45409),

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

Candidate Starts for Elliott_67:

(Start: 1 @44695 has 16 MA's), (2, 44758), (4, 44767), (6, 44803), (8, 44818), (10, 44836), (11, 44857), (13, 44878),

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

Candidate Starts for Emalyn_65:

(Start: 1 @42894 has 16 MA's), (2, 42969), (5, 42984), (7, 43023), (8, 43029), (10, 43047), (13, 43089),

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

Candidate Starts for GoldHunter_69:

(Start: 1 @45215 has 16 MA's), (2, 45278), (4, 45287), (6, 45323), (7, 45332), (8, 45338), (10, 45356), (11, 45377), (13, 45398),

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

Candidate Starts for Horseradish_69:

(Start: 1 @44661 has 16 MA's), (2, 44736), (4, 44745), (6, 44781), (7, 44790), (8, 44796), (9, 44805), (10, 44814), (11, 44835), (13, 44856), (14, 44874),

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

Candidate Starts for MScarn_71:

(Start: 1 @44575 has 16 MA's), (2, 44650), (4, 44659), (6, 44695), (7, 44704), (8, 44710), (9, 44719), (10, 44728), (11, 44749), (13, 44770), (14, 44788),

Gene: MunkgeeRoachy_66 Start: 44540, Stop: 44803, Start Num: 1

Candidate Starts for MunkgeeRoachy_66:

(Start: 1 @44540 has 16 MA's), (2, 44603), (4, 44612), (6, 44648), (7, 44657), (8, 44663), (10, 44681), (11, 44702), (13, 44723), (15, 44747), (16, 44753),

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

Candidate Starts for Nina_67:

(Start: 1 @45298 has 16 MA's), (2, 45361), (4, 45370), (6, 45406), (7, 45415), (8, 45421), (10, 45439), (11, 45460), (13, 45481),

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

Candidate Starts for PsychoKiller_66:

(Start: 1 @44696 has 16 MA's), (2, 44759), (4, 44768), (6, 44804), (7, 44813), (8, 44819), (10, 44837), (11, 44858), (13, 44879),

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

Candidate Starts for RedBaron_73:

(Start: 1 @46122 has 16 MA's), (2, 46185), (4, 46194), (6, 46230), (7, 46239), (8, 46245), (10, 46263), (11, 46284), (13, 46305),

Gene: Socotra_69 Start: 45208, Stop: 45480, Start Num: 1

Candidate Starts for Socotra_69:

(Start: 1 @45208 has 16 MA's), (2, 45271), (4, 45280), (6, 45316), (7, 45325), (8, 45331), (10, 45349), (11, 45370), (13, 45391),

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

Candidate Starts for Sopespian_64:

(Start: 1 @44697 has 16 MA's), (2, 44760), (4, 44769), (6, 44805), (7, 44814), (8, 44820), (10, 44838), (11, 44859), (13, 44880),

Gene: Starburst_69 Start: 45104, Stop: 45376, Start Num: 1

Candidate Starts for Starburst_69:

(Start: 1 @45104 has 16 MA's), (2, 45167), (4, 45176), (6, 45212), (7, 45221), (8, 45227), (10, 45245), (11, 45266), (13, 45287),

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

Candidate Starts for SteamedHams_65:

(Start: 1 @43184 has 16 MA's), (2, 43253), (4, 43262), (6, 43298), (7, 43307), (8, 43313), (10, 43331), (11, 43352), (12, 43370), (13, 43373), (15, 43397),

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

Candidate Starts for SweatNTears_69:

(Start: 1 @44823 has 16 MA's), (2, 44898), (4, 44907), (6, 44943), (7, 44952), (8, 44958), (10, 44976), (11, 44997), (13, 45018), (14, 45036),

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

Candidate Starts for Tolls_66:

(Start: 1 @43455 has 16 MA's), (2, 43524), (4, 43533), (6, 43569), (7, 43578), (8, 43584), (10, 43602), (11, 43623), (13, 43644), (15, 43668),

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

Candidate Starts for Troje_69:

(Start: 1 @44798 has 16 MA's), (2, 44873), (4, 44882), (6, 44918), (7, 44927), (8, 44933), (10, 44951), (13, 44993), (14, 45011),

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

Candidate Starts for Typhonomachy_68:

(Start: 1 @44923 has 16 MA's), (2, 44986), (4, 44995), (6, 45031), (7, 45040), (8, 45046), (10, 45064), (11, 45085), (13, 45106),

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

Candidate Starts for Yummy_69:

(Start: 1 @44775 has 16 MA's), (2, 44850), (4, 44859), (6, 44895), (7, 44904), (8, 44910), (9, 44919),
(10, 44928), (11, 44949), (13, 44970), (14, 44988),