Pham 342359


1: Axym_66 + 12
2: ChickenTender_67
3: Yummy_69 + 3
4: Amok_66 + 1
5: Typhonomachy_67
6: BillDoor_67 + 4
7: Troje_69
8: Carsonalex_71
9: Emalyn_65
10: Eliott_67
11: MunkgeeRoachy_66
12: SweatNTears_69
13: Biskit_69 + 2
14: SteamedHams_65

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 342359 Report

This analysis was run 11/14/26 on database version 672.

Pham number 342359 has 36 members, 9 are drafts.

Phages represented in each track:
• Track 1 : Axym_66, Sopespian_65, GoldHunter_68, RADical_69, Bubble_67, Nina_67, Agatha_68, Cozz_67, Socotra_69, RSchmailzl_68, Starburst_69, RedBaron_75, PsychoKiller_66
• Track 2 : ChickenTender_67
• Track 3 : Yummy_69, Buttrmlkdreams_69, MScarn_71, Horseradish_69
• Track 4 : Amok_66, AikoCarson_67
• Track 5 : Typhonomachy_67
• Track 6 : BillDoor_67, ChocoMunchkin_63, Tolls_66, CaramelLatte_63, CanesSauce_63
• Track 7 : Troje_69
• Track 8 : Carsonalex_71
• Track 9 : Emalyn_65
• Track 10 : Eliott_67
• Track 11 : MunkgeeRoachy_66
• Track 12 : SweatNTears_69
• Track 13 : Biskit_69, SketchMex_67, Blondies_73
• Track 14 : 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 26 of the 27 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, Blondies_73, Bubble_67, Buttrmlkdreams_69, CanesSauce_63, CaramelLatte_63, Carsonalex_71, ChickenTender_67, ChocoMunchkin_63, Cozz_67, Eliott_67, Emalyn_65, GoldHunter_68, Horseradish_69, MScarn_71, MunkgeeRoachy_66, Nina_67, PsychoKiller_66, RADical_69, RSchmailzl_68, RedBaron_75, SketchMex_67, Socotra_69, Sopespian_65, Starburst_69, SteamedHams_65, SweatNTears_69, Tolls_66, Troje_69, Yummy_69,

Genes that have the "Most Annotated" start but do not call it:
• Typhonomachy_67,

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

Summary by start number:

Start 1:
• Found in 36 of 36 (100.0%) of genes in pham
• Manual Annotations of this start: 26 of 27
• Called 97.2% 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), Blondies_73 (CT), Bubble_67 (CT), Buttrmlkdreams_69 (CT), CanesSauce_63 (CT), CaramelLatte_63 (CT), Carsonalex_71 (CT), ChickenTender_67 (CT), ChocoMunchkin_63 (CT), Cozz_67 (CT), Eliott_67 (CT), Emalyn_65 (CT), GoldHunter_68 (CT), Horseradish_69 (CT), MScarn_71 (CT), MunkgeeRoachy_66 (CT), Nina_67 (CT), PsychoKiller_66 (CT), RADical_69 (CT), RSchmailzl_68 (CT), RedBaron_75 (CT), SketchMex_67 (CT), Socotra_69 (CT), Sopespian_65 (CT), Starburst_69 (CT), SteamedHams_65 (CT), SweatNTears_69 (CT), Tolls_66 (CT), Troje_69 (CT), Yummy_69 (CT),

Start 2:
• Found in 36 of 36 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 2.8% of time when present
• Phage (with cluster) where this start called: Typhonomachy_67 (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 26 times for cluster CT.
•Start number 2 was manually annotated 1 time for cluster CT.

Gene Information:

Gene: Agatha_68 Start: 45224, Stop: 45496, Start Num: 1
Candidate Starts for Agatha_68:
(Start: 1 @45224 has 26 MA's), (Start: 2 @45287 has 1 MA's), (4, 45296), (6, 45332), (7, 45341), (8, 45347), (10, 45365), (11, 45386), (13, 45407),

Gene: AikoCarson_67 Start: 44165, Stop: 44407, Start Num: 1
Candidate Starts for AikoCarson_67:
(Start: 1 @44165 has 26 MA's), (Start: 2 @44240 has 1 MA's), (5, 44255), (6, 44285), (7, 44294), (8, 44300), (10, 44318), (13, 44360),

Gene: Amok_66 Start: 44205, Stop: 44444, Start Num: 1
Candidate Starts for Amok_66:
(Start: 1 @44205 has 26 MA's), (Start: 2 @44280 has 1 MA's), (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 26 MA's), (Start: 2 @45162 has 1 MA's), (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 26 MA's), (Start: 2 @43543 has 1 MA's), (4, 43552), (6, 43588), (7, 43597), (8, 43603), (10, 43621), (11, 43642), (13, 43663), (15, 43687),

Gene: Biskit_69 Start: 44728, Stop: 44964, Start Num: 1
Candidate Starts for Biskit_69:
(Start: 1 @44728 has 26 MA's), (Start: 2 @44803 has 1 MA's), (4, 44812), (7, 44857), (8, 44863), (9, 44872), (10, 44881), (13, 44923), (14, 44941),

Gene: Blondies_73 Start: 45047, Stop: 45283, Start Num: 1
Candidate Starts for Blondies_73:
(Start: 1 @45047 has 26 MA's), (Start: 2 @45122 has 1 MA's), (4, 45131), (7, 45176), (8, 45182), (9, 45191), (10, 45200), (13, 45242), (14, 45260),

Gene: Bubble_67 Start: 45154, Stop: 45426, Start Num: 1
Candidate Starts for Bubble_67:
(Start: 1 @45154 has 26 MA's), (Start: 2 @45217 has 1 MA's), (4, 45226), (6, 45262), (7, 45271), (8, 45277), (10, 45295), (11, 45316), (13, 45337),

Gene: Buttrmlkdreams_69 Start: 44897, Stop: 45133, Start Num: 1
Candidate Starts for Buttrmlkdreams_69:
(Start: 1 @44897 has 26 MA's), (Start: 2 @44972 has 1 MA's), (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 26 MA's), (Start: 2 @43437 has 1 MA's), (4, 43446), (6, 43482), (7, 43491), (8, 43497), (10, 43515), (11, 43536), (13, 43557), (15, 43581),

Gene: CaramelLatte_63 Start: 43368, Stop: 43616, Start Num: 1
Candidate Starts for CaramelLatte_63:
(Start: 1 @43368 has 26 MA's), (Start: 2 @43437 has 1 MA's), (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 26 MA's), (Start: 2 @45332 has 1 MA's), (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 26 MA's), (Start: 2 @43952 has 1 MA's), (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 26 MA's), (Start: 2 @43437 has 1 MA's), (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 26 MA's), (Start: 2 @45289 has 1 MA's), (4, 45298), (6, 45334), (7, 45343), (8, 45349), (10, 45367), (11, 45388), (13, 45409),

Gene: Eliott_67 Start: 44695, Stop: 44967, Start Num: 1
Candidate Starts for Eliott_67:
(Start: 1 @44695 has 26 MA's), (Start: 2 @44758 has 1 MA's), (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 26 MA's), (Start: 2 @42969 has 1 MA's), (5, 42984), (7, 43023), (8, 43029), (10, 43047), (13, 43089),

Gene: GoldHunter_68 Start: 45215, Stop: 45487, Start Num: 1
Candidate Starts for GoldHunter_68:
(Start: 1 @45215 has 26 MA's), (Start: 2 @45278 has 1 MA's), (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 26 MA's), (Start: 2 @44736 has 1 MA's), (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 26 MA's), (Start: 2 @44650 has 1 MA's), (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 26 MA's), (Start: 2 @44603 has 1 MA's), (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 26 MA's), (Start: 2 @45361 has 1 MA's), (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 26 MA's), (Start: 2 @44759 has 1 MA's), (4, 44768), (6, 44804), (7, 44813), (8, 44819), (10, 44837), (11, 44858), (13, 44879),

Gene: RADical_69 Start: 45102, Stop: 45374, Start Num: 1
Candidate Starts for RADical_69:
(Start: 1 @45102 has 26 MA's), (Start: 2 @45165 has 1 MA's), (4, 45174), (6, 45210), (7, 45219), (8, 45225), (10, 45243), (11, 45264), (13, 45285),

Gene: RSchmailzl_68 Start: 45118, Stop: 45390, Start Num: 1
Candidate Starts for RSchmailzl_68:
(Start: 1 @45118 has 26 MA's), (Start: 2 @45181 has 1 MA's), (4, 45190), (6, 45226), (7, 45235), (8, 45241), (10, 45259), (11, 45280), (13, 45301),

Gene: RedBaron_75 Start: 46122, Stop: 46394, Start Num: 1
Candidate Starts for RedBaron_75:
(Start: 1 @46122 has 26 MA's), (Start: 2 @46185 has 1 MA's), (4, 46194), (6, 46230), (7, 46239), (8, 46245), (10, 46263), (11, 46284), (13, 46305),

Gene: SketchMex_67 Start: 44728, Stop: 44964, Start Num: 1
Candidate Starts for SketchMex_67:
(Start: 1 @44728 has 26 MA's), (Start: 2 @44803 has 1 MA's), (4, 44812), (7, 44857), (8, 44863), (9, 44872), (10, 44881), (13, 44923), (14, 44941),

Gene: Socotra_69 Start: 45208, Stop: 45480, Start Num: 1
Candidate Starts for Socotra_69:
(Start: 1 @45208 has 26 MA's), (Start: 2 @45271 has 1 MA's), (4, 45280), (6, 45316), (7, 45325), (8, 45331), (10, 45349), (11, 45370), (13, 45391),

Gene: Sopespian_65 Start: 44697, Stop: 44969, Start Num: 1
Candidate Starts for Sopespian_65:
(Start: 1 @44697 has 26 MA's), (Start: 2 @44760 has 1 MA's), (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 26 MA's), (Start: 2 @45167 has 1 MA's), (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 26 MA's), (Start: 2 @43253 has 1 MA's), (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 26 MA's), (Start: 2 @44898 has 1 MA's), (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 26 MA's), (Start: 2 @43524 has 1 MA's), (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 26 MA's), (Start: 2 @44873 has 1 MA's), (4, 44882), (6, 44918), (7, 44927), (8, 44933), (10, 44951), (13, 44993), (14, 45011),

Gene: Typhonomachy_67 Start: 44986, Stop: 45186, Start Num: 2
Candidate Starts for Typhonomachy_67:

(Start: 1 @44923 has 26 MA's), (Start: 2 @44986 has 1 MA's), (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 26 MA's), (Start: 2 @44850 has 1 MA's), (4, 44859), (6, 44895), (7, 44904), (8, 44910), (9, 44919), (10, 44928), (11, 44949), (13, 44970), (14, 44988),