

Pham 205394



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 205394 Report

This analysis was run 02/22/25 on database version 588.

Pham number 205394 has 32 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Axym\_66, Typhonomachy\_68, Sopespian\_64, GoldHunter\_69, Socotra\_69, RedBaron\_73, Nina\_67, Agatha\_68, Cozz\_67, Starburst\_69, PsychoKiller\_66
- Track 2 : ChickenTender\_67
- Track 3 : Amok\_66, AikoCarson\_67
- 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 : Biskit\_69, SketchMex\_67, Blondies\_72
- Track 13 : 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 19 of the 19 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\_72, 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, SketchMex\_67, 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:

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

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### Summary by start number:

Start 1:

- Found in 32 of 32 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 19 of 19
- 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), Blondies\_72 (CT), Buttrmilkdreams\_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), SketchMex\_67 (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 19 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 19 MA's), (2, 45287), (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 19 MA's), (2, 44240), (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 19 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 19 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 19 MA's), (2, 43543), (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 19 MA's), (2, 44803), (4, 44812), (7, 44857), (8, 44863), (9, 44872), (10, 44881), (13, 44923), (14, 44941),

Gene: Blondies\_72 Start: 45047, Stop: 45283, Start Num: 1

Candidate Starts for Blondies\_72:

(Start: 1 @45047 has 19 MA's), (2, 45122), (4, 45131), (7, 45176), (8, 45182), (9, 45191), (10, 45200), (13, 45242), (14, 45260),

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

Candidate Starts for Buttrmlkdreams\_69:

(Start: 1 @44897 has 19 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 19 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 19 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 19 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 19 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 19 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 19 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 19 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 19 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 19 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 19 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 19 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 19 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 19 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 19 MA's), (2, 46185), (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 19 MA's), (2, 44803), (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 19 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 19 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 19 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 19 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 19 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 19 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 19 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 19 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 19 MA's), (2, 44850), (4, 44859), (6, 44895), (7, 44904), (8, 44910), (9, 44919), (10, 44928), (11, 44949), (13, 44970), (14, 44988),