



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 280622 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280622 has 39 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Quasar_54, Agatha_54, Carsonalex_57, Axym_53, GoldHunter_55, RADical_55, Bubble_52
- Track 2 : Starburst_54, Cozz_52, Socotra_55, PsychoKiller_53, RSchmailzl_55, MunkgeeRoachy_52, Typhonomachy_53, Sopespian_51, Elliott_54, RedBaron_58
- Track 3 : AikoCarson_55, Emalyn_53, Amok_55
- Track 4 : Nina_54, Burnsey_54, SweatNTears_56
- Track 5 : Biskit_56, SketchMex_54, Blondies_57, Yummy_56, Troje_56, MScarn_58, Horseradish_56, Buttrmlkdreams_56
- Track 6 : Yarn_51, CanesSauce_53, SteamedHams_55, CaramelLatte_53, BillDoor_54, Tolls_55, ChocoMunchkin_53, AndPeggy_51

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 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agatha_54, Axym_53, Biskit_56, Blondies_57, Bubble_52, Burnsey_54, Buttrmlkdreams_56, Carsonalex_57, Cozz_52, Elliott_54, GoldHunter_55, Horseradish_56, MScarn_58, MunkgeeRoachy_52, Nina_54, PsychoKiller_53, Quasar_54, RADical_55, RSchmailzl_55, RedBaron_58, SketchMex_54, Socotra_55, Sopespian_51, Starburst_54, SweatNTears_56, Troje_56, Typhonomachy_53, Yummy_56,

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:

- AikoCarson_55, Amok_55, AndPeggy_51, BillDoor_54, CanesSauce_53, CaramelLatte_53, ChocoMunchkin_53, Emalyn_53, SteamedHams_55, Tolls_55, Yarn_51,

Summary by start number:

Start 1:

- Found in 28 of 39 (71.8%) of genes in pham
- Manual Annotations of this start: 18 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agatha_54 (CT), Axym_53 (CT), Biskit_56 (CT), Blondies_57 (CT), Bubble_52 (CT), Burnsey_54 (CT), Buttrmlkdreams_56 (CT), Carsonalex_57 (CT), Cozz_52 (CT), Elliott_54 (CT), GoldHunter_55 (CT), Horseradish_56 (CT), MScarn_58 (CT), MunkgeeRoachy_52 (CT), Nina_54 (CT), PsychoKiller_53 (CT), Quasar_54 (CT), RADical_55 (CT), RSchmailz_55 (CT), RedBaron_58 (CT), SketchMex_54 (CT), Socotra_55 (CT), Sopespian_51 (CT), Starburst_54 (CT), SweatNTears_56 (CT), Troje_56 (CT), Typhonomachy_53 (CT), Yummy_56 (CT),

Start 2:

- Found in 11 of 39 (28.2%) of genes in pham
- Manual Annotations of this start: 8 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AikoCarson_55 (CT), Amok_55 (CT), AndPeggy_51 (CT), BillDoor_54 (CT), CanesSauce_53 (CT), CaramelLatte_53 (CT), ChocoMunchkin_53 (CT), Emalyn_53 (CT), SteamedHams_55 (CT), Tolls_55 (CT), Yarn_51 (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.
- Start number 2 was manually annotated 8 times for cluster CT.

Gene Information:

Gene: Agatha_54 Start: 39108, Stop: 38839, Start Num: 1

Candidate Starts for Agatha_54:

(Start: 1 @39108 has 18 MA's), (4, 38991), (5, 38976), (7, 38952), (10, 38892), (11, 38883), (12, 38862),

Gene: AikoCarson_55 Start: 39322, Stop: 39104, Start Num: 2

Candidate Starts for AikoCarson_55:

(Start: 2 @39322 has 8 MA's), (5, 39241), (6, 39220), (7, 39217), (12, 39127),

Gene: Amok_55 Start: 39250, Stop: 39032, Start Num: 2

Candidate Starts for Amok_55:

(Start: 2 @39250 has 8 MA's), (5, 39169), (6, 39148), (7, 39145), (12, 39055),

Gene: AndPeggy_51 Start: 38515, Stop: 38312, Start Num: 2

Candidate Starts for AndPeggy_51:

(Start: 2 @38515 has 8 MA's), (3, 38476), (7, 38425), (8, 38395), (12, 38335),

Gene: Axym_53 Start: 39005, Stop: 38736, Start Num: 1

Candidate Starts for Axym_53:

(Start: 1 @39005 has 18 MA's), (4, 38888), (5, 38873), (7, 38849), (10, 38789), (11, 38780), (12, 38759),

Gene: BillDoor_54 Start: 38191, Stop: 37988, Start Num: 2

Candidate Starts for BillDoor_54:

(Start: 2 @38191 has 8 MA's), (3, 38152), (7, 38101), (8, 38071), (12, 38011),

Gene: Biskit_56 Start: 38917, Stop: 38645, Start Num: 1

Candidate Starts for Biskit_56:

(Start: 1 @38917 has 18 MA's), (9, 38725), (10, 38698), (12, 38668),

Gene: Blondies_57 Start: 39234, Stop: 38962, Start Num: 1

Candidate Starts for Blondies_57:

(Start: 1 @39234 has 18 MA's), (9, 39042), (10, 39015), (12, 38985),

Gene: Bubble_52 Start: 38693, Stop: 38424, Start Num: 1

Candidate Starts for Bubble_52:

(Start: 1 @38693 has 18 MA's), (4, 38576), (5, 38561), (7, 38537), (10, 38477), (11, 38468), (12, 38447),

Gene: Burnsey_54 Start: 39099, Stop: 38830, Start Num: 1

Candidate Starts for Burnsey_54:

(Start: 1 @39099 has 18 MA's), (5, 38967), (7, 38943), (10, 38883), (11, 38874), (12, 38853),

Gene: Buttrmlkdreams_56 Start: 39364, Stop: 39092, Start Num: 1

Candidate Starts for Buttrmlkdreams_56:

(Start: 1 @39364 has 18 MA's), (9, 39172), (10, 39145), (12, 39115),

Gene: CanesSauce_53 Start: 38676, Stop: 38482, Start Num: 2

Candidate Starts for CanesSauce_53:

(Start: 2 @38676 has 8 MA's), (3, 38646), (7, 38595), (8, 38565), (12, 38505),

Gene: CaramellLatte_53 Start: 38676, Stop: 38482, Start Num: 2

Candidate Starts for CaramellLatte_53:

(Start: 2 @38676 has 8 MA's), (3, 38646), (7, 38595), (8, 38565), (12, 38505),

Gene: Carsonalex_57 Start: 39487, Stop: 39218, Start Num: 1

Candidate Starts for Carsonalex_57:

(Start: 1 @39487 has 18 MA's), (4, 39370), (5, 39355), (7, 39331), (10, 39271), (11, 39262), (12, 39241),

Gene: ChocoMunchkin_53 Start: 38676, Stop: 38482, Start Num: 2

Candidate Starts for ChocoMunchkin_53:

(Start: 2 @38676 has 8 MA's), (3, 38646), (7, 38595), (8, 38565), (12, 38505),

Gene: Cozz_52 Start: 38696, Stop: 38427, Start Num: 1

Candidate Starts for Cozz_52:

(Start: 1 @38696 has 18 MA's), (5, 38564), (7, 38540), (10, 38480), (11, 38471), (12, 38450),

Gene: Elliott_54 Start: 38992, Stop: 38723, Start Num: 1

Candidate Starts for Elliott_54:

(Start: 1 @38992 has 18 MA's), (5, 38860), (7, 38836), (10, 38776), (11, 38767), (12, 38746),

Gene: Emalyn_53 Start: 38042, Stop: 37824, Start Num: 2

Candidate Starts for Emalyn_53:

(Start: 2 @38042 has 8 MA's), (5, 37961), (6, 37940), (7, 37937), (12, 37847),

Gene: GoldHunter_55 Start: 39109, Stop: 38840, Start Num: 1

Candidate Starts for GoldHunter_55:

(Start: 1 @39109 has 18 MA's), (4, 38992), (5, 38977), (7, 38953), (10, 38893), (11, 38884), (12, 38863),

Gene: Horseradish_56 Start: 38850, Stop: 38578, Start Num: 1

Candidate Starts for Horseradish_56:

(Start: 1 @38850 has 18 MA's), (9, 38658), (10, 38631), (12, 38601),

Gene: MScarn_58 Start: 39032, Stop: 38760, Start Num: 1

Candidate Starts for MScarn_58:

(Start: 1 @39032 has 18 MA's), (9, 38840), (10, 38813), (12, 38783),

Gene: MunkgeeRoachy_52 Start: 38455, Stop: 38186, Start Num: 1

Candidate Starts for MunkgeeRoachy_52:

(Start: 1 @38455 has 18 MA's), (5, 38323), (7, 38299), (10, 38239), (11, 38230), (12, 38209),

Gene: Nina_54 Start: 39595, Stop: 39326, Start Num: 1

Candidate Starts for Nina_54:

(Start: 1 @39595 has 18 MA's), (5, 39463), (7, 39439), (10, 39379), (11, 39370), (12, 39349),

Gene: PsychoKiller_53 Start: 38993, Stop: 38724, Start Num: 1

Candidate Starts for PsychoKiller_53:

(Start: 1 @38993 has 18 MA's), (5, 38861), (7, 38837), (10, 38777), (11, 38768), (12, 38747),

Gene: Quasar_54 Start: 39697, Stop: 39428, Start Num: 1

Candidate Starts for Quasar_54:

(Start: 1 @39697 has 18 MA's), (4, 39580), (5, 39565), (7, 39541), (10, 39481), (11, 39472), (12, 39451),

Gene: RADical_55 Start: 38987, Stop: 38718, Start Num: 1

Candidate Starts for RADical_55:

(Start: 1 @38987 has 18 MA's), (4, 38870), (5, 38855), (7, 38831), (10, 38771), (11, 38762), (12, 38741),

Gene: RSchmailzl_55 Start: 39152, Stop: 38874, Start Num: 1

Candidate Starts for RSchmailzl_55:

(Start: 1 @39152 has 18 MA's), (5, 39011), (7, 38987), (10, 38927), (11, 38918), (12, 38897),

Gene: RedBaron_58 Start: 40070, Stop: 39801, Start Num: 1

Candidate Starts for RedBaron_58:

(Start: 1 @40070 has 18 MA's), (5, 39938), (7, 39914), (10, 39854), (11, 39845), (12, 39824),

Gene: SketchMex_54 Start: 38917, Stop: 38645, Start Num: 1

Candidate Starts for SketchMex_54:

(Start: 1 @38917 has 18 MA's), (9, 38725), (10, 38698), (12, 38668),

Gene: Socotra_55 Start: 39105, Stop: 38836, Start Num: 1

Candidate Starts for Socotra_55:

(Start: 1 @39105 has 18 MA's), (5, 38973), (7, 38949), (10, 38889), (11, 38880), (12, 38859),

Gene: Sopespian_51 Start: 38994, Stop: 38725, Start Num: 1

Candidate Starts for Sopespian_51:

(Start: 1 @38994 has 18 MA's), (5, 38862), (7, 38838), (10, 38778), (11, 38769), (12, 38748),

Gene: Starburst_54 Start: 38989, Stop: 38720, Start Num: 1

Candidate Starts for Starburst_54:

(Start: 1 @38989 has 18 MA's), (5, 38857), (7, 38833), (10, 38773), (11, 38764), (12, 38743),

Gene: SteamedHams_55 Start: 38492, Stop: 38289, Start Num: 2

Candidate Starts for SteamedHams_55:

(Start: 2 @38492 has 8 MA's), (3, 38453), (7, 38402), (8, 38372), (12, 38312),

Gene: SweatNTears_56 Start: 39236, Stop: 38967, Start Num: 1

Candidate Starts for SweatNTears_56:

(Start: 1 @39236 has 18 MA's), (5, 39104), (7, 39080), (10, 39020), (11, 39011), (12, 38990),

Gene: Tolls_55 Start: 38763, Stop: 38560, Start Num: 2

Candidate Starts for Tolls_55:

(Start: 2 @38763 has 8 MA's), (3, 38724), (7, 38673), (8, 38643), (12, 38583),

Gene: Troje_56 Start: 39255, Stop: 38983, Start Num: 1

Candidate Starts for Troje_56:

(Start: 1 @39255 has 18 MA's), (9, 39063), (10, 39036), (12, 39006),

Gene: Typhonomachy_53 Start: 38818, Stop: 38549, Start Num: 1

Candidate Starts for Typhonomachy_53:

(Start: 1 @38818 has 18 MA's), (5, 38686), (7, 38662), (10, 38602), (11, 38593), (12, 38572),

Gene: Yarn_51 Start: 38520, Stop: 38317, Start Num: 2

Candidate Starts for Yarn_51:

(Start: 2 @38520 has 8 MA's), (3, 38481), (7, 38430), (8, 38400), (12, 38340),

Gene: Yummy_56 Start: 38964, Stop: 38692, Start Num: 1

Candidate Starts for Yummy_56:

(Start: 1 @38964 has 18 MA's), (9, 38772), (10, 38745), (12, 38715),