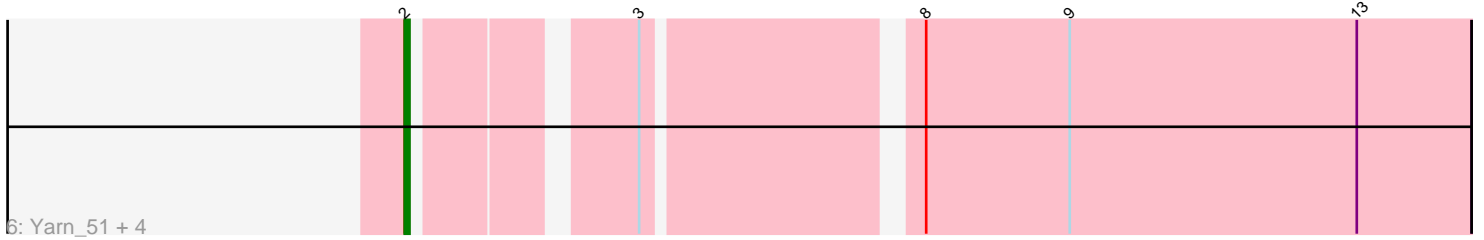
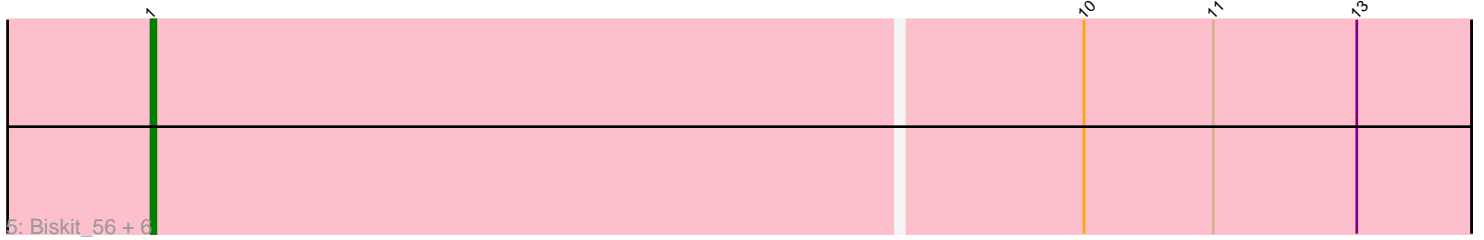
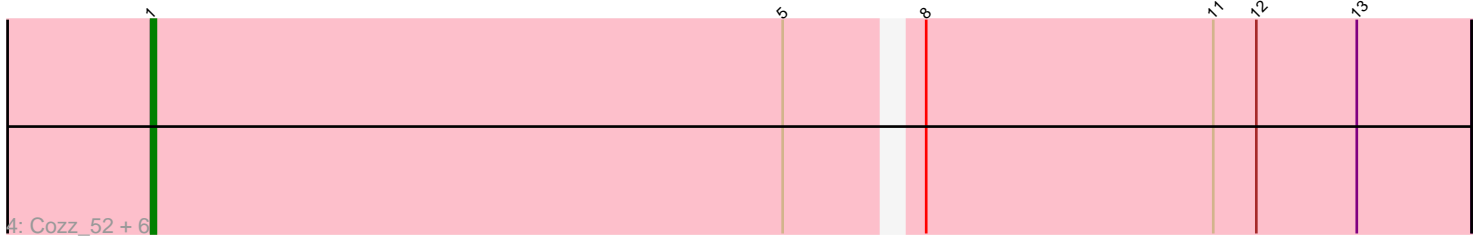
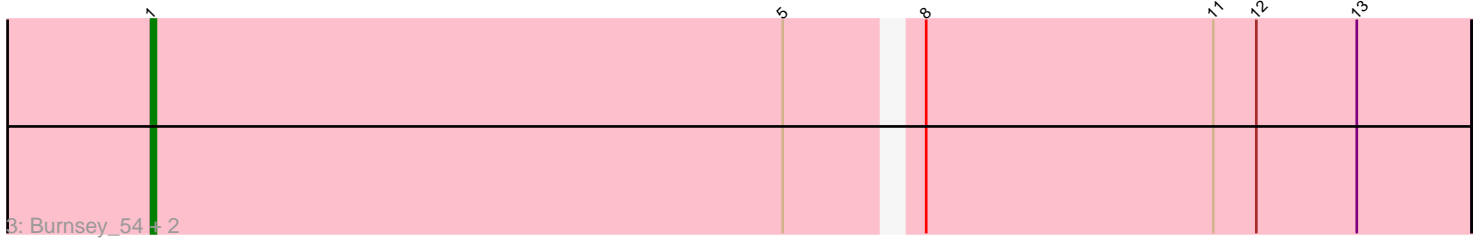
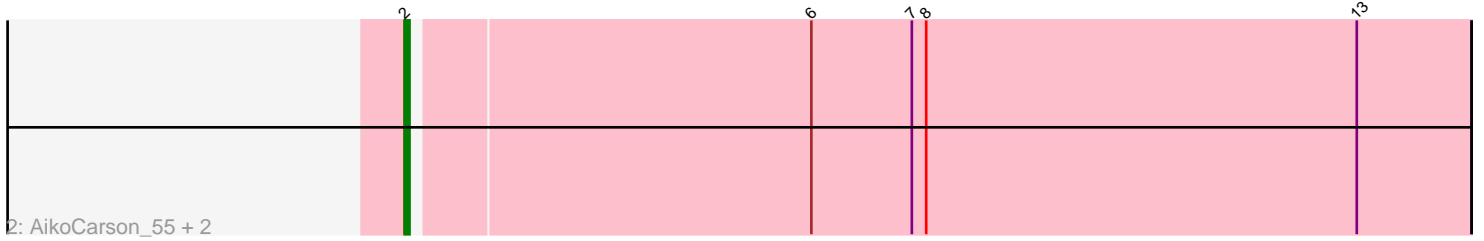
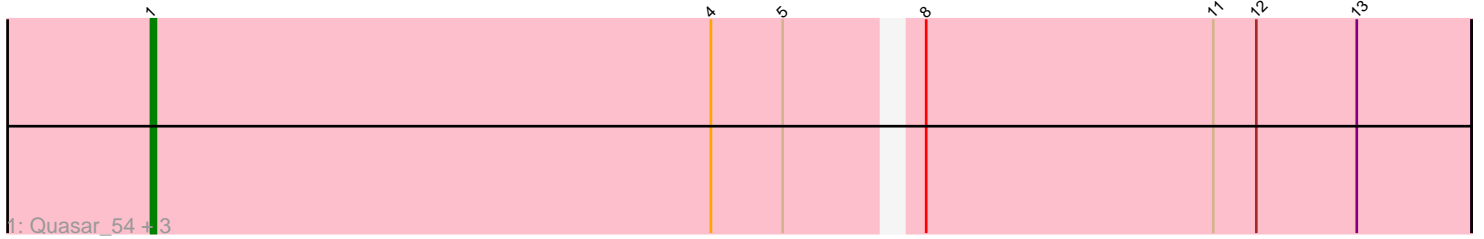


Pham 163837



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 163837 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163837 has 29 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Quasar\_54, Agatha\_54, Axym\_53, GoldHunter\_55
- Track 2 : AikoCarson\_55, Amok\_55, Emalyn\_53
- Track 3 : Burnsey\_54, Nina\_54, SweatNTears\_56
- Track 4 : Cozz\_52, PsychoKiller\_53, MunkgeeRoachy\_55, Typhonmarchy\_54, Sopespian\_51, Elliott\_54, RedBaron\_58
- Track 5 : Biskit\_56, SketchMex\_54, Buttrmlkdreams\_56, Yummy\_56, Troje\_56, MScarn\_58, Horseradish\_56
- Track 6 : Yarn\_51, SteamedHams\_55, Tolls\_55, AndPeggy\_51, BillDoor\_54

### ***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 14 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agatha\_54, Axym\_53, Biskit\_56, Burnsey\_54, Buttrmlkdreams\_56, Cozz\_52, Elliott\_54, GoldHunter\_55, Horseradish\_56, MScarn\_58, MunkgeeRoachy\_55, Nina\_54, PsychoKiller\_53, Quasar\_54, RedBaron\_58, SketchMex\_54, Sopespian\_51, SweatNTears\_56, Troje\_56, Typhonmarchy\_54, Yummy\_56,

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

- 

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

- AikoCarson\_55, Amok\_55, AndPeggy\_51, BillDoor\_54, Emalyn\_53, SteamedHams\_55, Tolls\_55, Yarn\_51,

### **Summary by start number:**

Start 1:

- Found in 21 of 29 ( 72.4% ) of genes in pham
- Manual Annotations of this start: 14 of 22
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Agatha\_54 (CT), Axym\_53 (CT), Biskit\_56 (CT), Burnsey\_54 (CT), Buttrmlkdreams\_56 (CT), Cozz\_52 (CT), Elliott\_54 (CT), GoldHunter\_55 (CT), Horseradish\_56 (CT), MScarn\_58 (CT), MunkgeeRoachy\_55 (CT), Nina\_54 (CT), PsychoKiller\_53 (CT), Quasar\_54 (CT), RedBaron\_58 (CT), SketchMex\_54 (CT), Sopespian\_51 (CT), SweatNTears\_56 (CT), Troje\_56 (CT), Typhonmarchy\_54 (CT), Yummy\_56 (CT),

Start 2:

- Found in 8 of 29 ( 27.6% ) of genes in pham
- Manual Annotations of this start: 8 of 22
- 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), 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 14 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 14 MA's), (4, 38991), (5, 38976), (8, 38952), (11, 38892), (12, 38883), (13, 38862),

Gene: AikoCarson\_55 Start: 39322, Stop: 39104, Start Num: 2

Candidate Starts for AikoCarson\_55:

(Start: 2 @39322 has 8 MA's), (6, 39241), (7, 39220), (8, 39217), (13, 39127),

Gene: Amok\_55 Start: 39250, Stop: 39032, Start Num: 2

Candidate Starts for Amok\_55:

(Start: 2 @39250 has 8 MA's), (6, 39169), (7, 39148), (8, 39145), (13, 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), (8, 38425), (9, 38395), (13, 38335),

Gene: Axym\_53 Start: 39005, Stop: 38736, Start Num: 1

Candidate Starts for Axym\_53:

(Start: 1 @39005 has 14 MA's), (4, 38888), (5, 38873), (8, 38849), (11, 38789), (12, 38780), (13, 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), (8, 38101), (9, 38071), (13, 38011),

Gene: Biskit\_56 Start: 38917, Stop: 38645, Start Num: 1  
Candidate Starts for Biskit\_56:  
(Start: 1 @38917 has 14 MA's), (10, 38725), (11, 38698), (13, 38668),

Gene: Burnsey\_54 Start: 39099, Stop: 38830, Start Num: 1  
Candidate Starts for Burnsey\_54:  
(Start: 1 @39099 has 14 MA's), (5, 38967), (8, 38943), (11, 38883), (12, 38874), (13, 38853),

Gene: Buttrmlkdreams\_56 Start: 39364, Stop: 39092, Start Num: 1  
Candidate Starts for Buttrmlkdreams\_56:  
(Start: 1 @39364 has 14 MA's), (10, 39172), (11, 39145), (13, 39115),

Gene: Cozz\_52 Start: 38696, Stop: 38427, Start Num: 1  
Candidate Starts for Cozz\_52:  
(Start: 1 @38696 has 14 MA's), (5, 38564), (8, 38540), (11, 38480), (12, 38471), (13, 38450),

Gene: Elliott\_54 Start: 38992, Stop: 38723, Start Num: 1  
Candidate Starts for Elliott\_54:  
(Start: 1 @38992 has 14 MA's), (5, 38860), (8, 38836), (11, 38776), (12, 38767), (13, 38746),

Gene: Emalyn\_53 Start: 38042, Stop: 37824, Start Num: 2  
Candidate Starts for Emalyn\_53:  
(Start: 2 @38042 has 8 MA's), (6, 37961), (7, 37940), (8, 37937), (13, 37847),

Gene: GoldHunter\_55 Start: 39109, Stop: 38840, Start Num: 1  
Candidate Starts for GoldHunter\_55:  
(Start: 1 @39109 has 14 MA's), (4, 38992), (5, 38977), (8, 38953), (11, 38893), (12, 38884), (13, 38863),

Gene: Horseradish\_56 Start: 38850, Stop: 38578, Start Num: 1  
Candidate Starts for Horseradish\_56:  
(Start: 1 @38850 has 14 MA's), (10, 38658), (11, 38631), (13, 38601),

Gene: MScarn\_58 Start: 39032, Stop: 38760, Start Num: 1  
Candidate Starts for MScarn\_58:  
(Start: 1 @39032 has 14 MA's), (10, 38840), (11, 38813), (13, 38783),

Gene: MunkgeeRoachy\_55 Start: 38455, Stop: 38186, Start Num: 1  
Candidate Starts for MunkgeeRoachy\_55:  
(Start: 1 @38455 has 14 MA's), (5, 38323), (8, 38299), (11, 38239), (12, 38230), (13, 38209),

Gene: Nina\_54 Start: 39595, Stop: 39326, Start Num: 1  
Candidate Starts for Nina\_54:  
(Start: 1 @39595 has 14 MA's), (5, 39463), (8, 39439), (11, 39379), (12, 39370), (13, 39349),

Gene: PsychoKiller\_53 Start: 38993, Stop: 38724, Start Num: 1  
Candidate Starts for PsychoKiller\_53:  
(Start: 1 @38993 has 14 MA's), (5, 38861), (8, 38837), (11, 38777), (12, 38768), (13, 38747),

Gene: Quasar\_54 Start: 39697, Stop: 39428, Start Num: 1  
Candidate Starts for Quasar\_54:  
(Start: 1 @39697 has 14 MA's), (4, 39580), (5, 39565), (8, 39541), (11, 39481), (12, 39472), (13, 39451),

Gene: RedBaron\_58 Start: 40070, Stop: 39801, Start Num: 1  
Candidate Starts for RedBaron\_58:  
(Start: 1 @40070 has 14 MA's), (5, 39938), (8, 39914), (11, 39854), (12, 39845), (13, 39824),

Gene: SketchMex\_54 Start: 38917, Stop: 38645, Start Num: 1  
Candidate Starts for SketchMex\_54:  
(Start: 1 @38917 has 14 MA's), (10, 38725), (11, 38698), (13, 38668),

Gene: Sopespian\_51 Start: 38994, Stop: 38725, Start Num: 1  
Candidate Starts for Sopespian\_51:  
(Start: 1 @38994 has 14 MA's), (5, 38862), (8, 38838), (11, 38778), (12, 38769), (13, 38748),

Gene: SteamedHams\_55 Start: 38492, Stop: 38289, Start Num: 2  
Candidate Starts for SteamedHams\_55:  
(Start: 2 @38492 has 8 MA's), (3, 38453), (8, 38402), (9, 38372), (13, 38312),

Gene: SweatNTears\_56 Start: 39236, Stop: 38967, Start Num: 1  
Candidate Starts for SweatNTears\_56:  
(Start: 1 @39236 has 14 MA's), (5, 39104), (8, 39080), (11, 39020), (12, 39011), (13, 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), (8, 38673), (9, 38643), (13, 38583),

Gene: Troje\_56 Start: 39255, Stop: 38983, Start Num: 1  
Candidate Starts for Troje\_56:  
(Start: 1 @39255 has 14 MA's), (10, 39063), (11, 39036), (13, 39006),

Gene: Typhonomachy\_54 Start: 38818, Stop: 38549, Start Num: 1  
Candidate Starts for Typhonomachy\_54:  
(Start: 1 @38818 has 14 MA's), (5, 38686), (8, 38662), (11, 38602), (12, 38593), (13, 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), (8, 38430), (9, 38400), (13, 38340),

Gene: Yummy\_56 Start: 38964, Stop: 38692, Start Num: 1  
Candidate Starts for Yummy\_56:  
(Start: 1 @38964 has 14 MA's), (10, 38772), (11, 38745), (13, 38715),