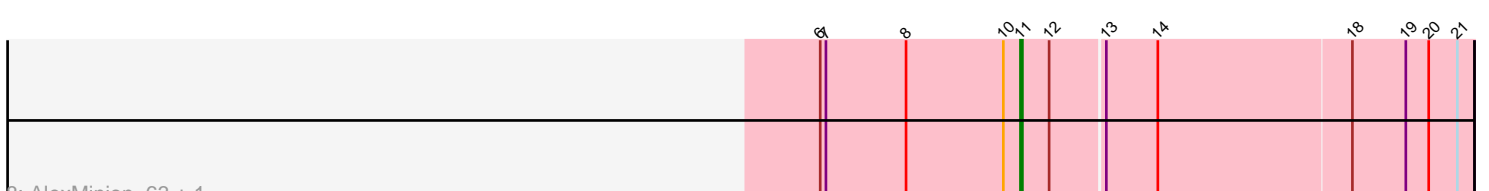
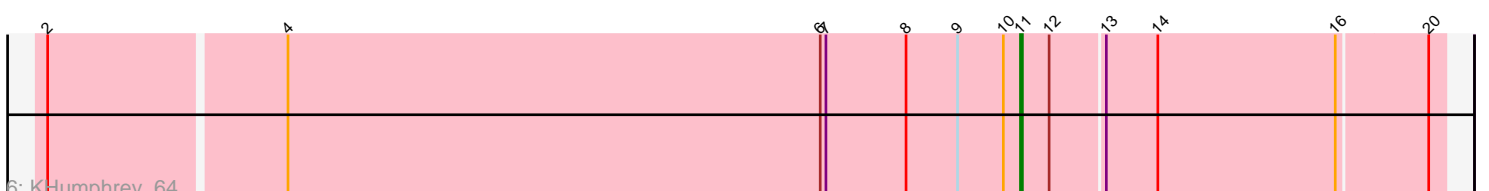
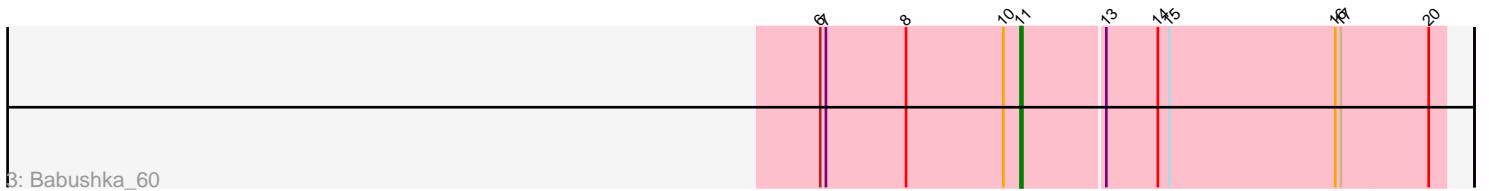
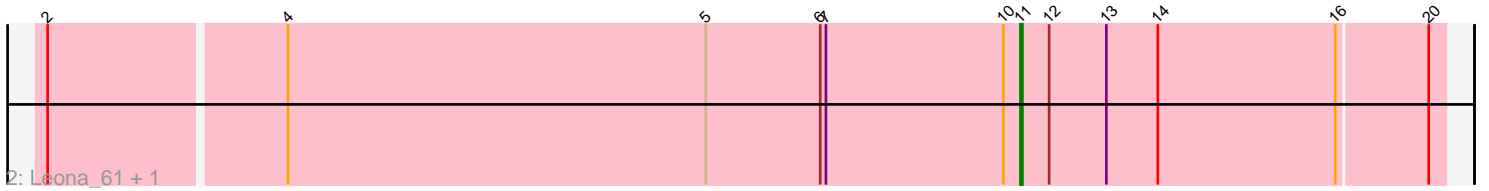
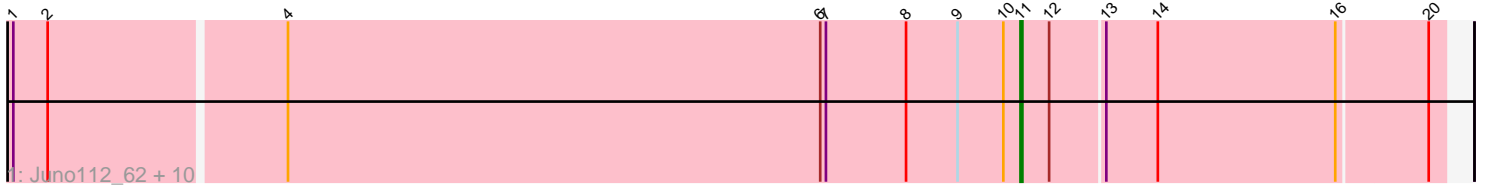


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 296954 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296954 has 21 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Juno112\_62, AmiCi24\_62, DanHam62\_63, HamCheese\_63, Laphuphu24k\_62, PhluffyCoco\_63, Amphitrite\_63, Fingolfin\_63, Atlantica\_64, Glotell\_65, Rattail\_63
- Track 2 : Leona\_61, Azaz\_65
- Track 3 : Babushka\_60
- Track 4 : Camara\_63, Oppalora\_62
- Track 5 : Renna12\_63
- Track 6 : KHumphrey\_64
- Track 7 : AdoptaAdorbs\_62
- Track 8 : AlexMinion\_63, StuartMinion\_53

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 11, it was called in 12 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AdoptaAdorbs\_62, AlexMinion\_63, AmiCi24\_62, Amphitrite\_63, Atlantica\_64, Azaz\_65, Babushka\_60, Camara\_63, DanHam62\_63, Fingolfin\_63, Glotell\_65, HamCheese\_63, Juno112\_62, KHumphrey\_64, Laphuphu24k\_62, Leona\_61, Oppalora\_62, PhluffyCoco\_63, Rattail\_63, Renna12\_63, StuartMinion\_53,

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 11:

- Found in 21 of 21 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 12
- Called 100.0% of time when present

• Phage (with cluster) where this start called: AdoptaAdorbs\_62 (AS3), AlexMinion\_63 (AS3), AmiCi24\_62 (AS3), Amphitrite\_63 (AS3), Atlantica\_64 (AS3), Azaz\_65 (AS3), Babushka\_60 (AS3), Camara\_63 (AS3), DanHam62\_63 (AS3), Fingolfin\_63 (AS3), Glotell\_65 (AS3), HamCheese\_63 (AS3), Juno112\_62 (AS3), KHumphrey\_64 (AS3), Laphuphu24k\_62 (AS3), Leona\_61 (AS3), Oppalora\_62 (AS3), PhluffyCoco\_63 (AS3), Rattail\_63 (AS3), Renna12\_63 (AS3), StuartMinion\_53 (AS3),

### **Summary by clusters:**

There is one cluster represented in this pham: AS3

Info for manual annotations of cluster AS3:

•Start number 11 was manually annotated 12 times for cluster AS3.

### **Gene Information:**

Gene: AdoptaAdorbs\_62 Start: 36481, Stop: 36696, Start Num: 11

Candidate Starts for AdoptaAdorbs\_62:

(1, 35959), (2, 35977), (4, 36097), (6, 36376), (7, 36379), (8, 36421), (9, 36448), (10, 36472), (Start: 11 @36481 has 12 MA's), (12, 36496), (13, 36523), (14, 36550), (20, 36688),

Gene: AlexMinion\_63 Start: 36156, Stop: 36386, Start Num: 11

Candidate Starts for AlexMinion\_63:

(6, 36051), (7, 36054), (8, 36096), (10, 36147), (Start: 11 @36156 has 12 MA's), (12, 36171), (13, 36198), (14, 36225), (18, 36324), (19, 36351), (20, 36363), (21, 36378),

Gene: AmiCi24\_62 Start: 36590, Stop: 36805, Start Num: 11

Candidate Starts for AmiCi24\_62:

(1, 36068), (2, 36086), (4, 36206), (6, 36485), (7, 36488), (8, 36530), (9, 36557), (10, 36581), (Start: 11 @36590 has 12 MA's), (12, 36605), (13, 36632), (14, 36659), (16, 36752), (20, 36797),

Gene: Amphitrite\_63 Start: 36480, Stop: 36695, Start Num: 11

Candidate Starts for Amphitrite\_63:

(1, 35958), (2, 35976), (4, 36096), (6, 36375), (7, 36378), (8, 36420), (9, 36447), (10, 36471), (Start: 11 @36480 has 12 MA's), (12, 36495), (13, 36522), (14, 36549), (16, 36642), (20, 36687),

Gene: Atlantica\_64 Start: 36592, Stop: 36807, Start Num: 11

Candidate Starts for Atlantica\_64:

(1, 36070), (2, 36088), (4, 36208), (6, 36487), (7, 36490), (8, 36532), (9, 36559), (10, 36583), (Start: 11 @36592 has 12 MA's), (12, 36607), (13, 36634), (14, 36661), (16, 36754), (20, 36799),

Gene: Azaz\_65 Start: 36682, Stop: 36897, Start Num: 11

Candidate Starts for Azaz\_65:

(2, 36178), (4, 36298), (5, 36517), (6, 36577), (7, 36580), (10, 36673), (Start: 11 @36682 has 12 MA's), (12, 36697), (13, 36724), (14, 36751), (16, 36844), (20, 36889),

Gene: Babushka\_60 Start: 36379, Stop: 36597, Start Num: 11

Candidate Starts for Babushka\_60:

(6, 36274), (7, 36277), (8, 36319), (10, 36370), (Start: 11 @36379 has 12 MA's), (13, 36421), (14, 36448), (15, 36454), (16, 36541), (17, 36544), (20, 36589),

Gene: Camara\_63 Start: 36483, Stop: 36698, Start Num: 11

Candidate Starts for Camara\_63:

(1, 35961), (2, 35979), (4, 36099), (6, 36378), (7, 36381), (8, 36423), (10, 36474), (Start: 11 @36483 has 12 MA's), (12, 36498), (13, 36525), (14, 36552), (16, 36645), (20, 36690),

Gene: DanHam62\_63 Start: 36591, Stop: 36806, Start Num: 11

Candidate Starts for DanHam62\_63:

(1, 36069), (2, 36087), (4, 36207), (6, 36486), (7, 36489), (8, 36531), (9, 36558), (10, 36582), (Start: 11 @36591 has 12 MA's), (12, 36606), (13, 36633), (14, 36660), (16, 36753), (20, 36798),

Gene: Fingolfin\_63 Start: 36594, Stop: 36809, Start Num: 11

Candidate Starts for Fingolfin\_63:

(1, 36072), (2, 36090), (4, 36210), (6, 36489), (7, 36492), (8, 36534), (9, 36561), (10, 36585), (Start: 11 @36594 has 12 MA's), (12, 36609), (13, 36636), (14, 36663), (16, 36756), (20, 36801),

Gene: Glotell\_65 Start: 36638, Stop: 36853, Start Num: 11

Candidate Starts for Glotell\_65:

(1, 36116), (2, 36134), (4, 36254), (6, 36533), (7, 36536), (8, 36578), (9, 36605), (10, 36629), (Start: 11 @36638 has 12 MA's), (12, 36653), (13, 36680), (14, 36707), (16, 36800), (20, 36845),

Gene: HamCheese\_63 Start: 36578, Stop: 36793, Start Num: 11

Candidate Starts for HamCheese\_63:

(1, 36056), (2, 36074), (4, 36194), (6, 36473), (7, 36476), (8, 36518), (9, 36545), (10, 36569), (Start: 11 @36578 has 12 MA's), (12, 36593), (13, 36620), (14, 36647), (16, 36740), (20, 36785),

Gene: Juno112\_62 Start: 36594, Stop: 36809, Start Num: 11

Candidate Starts for Juno112\_62:

(1, 36072), (2, 36090), (4, 36210), (6, 36489), (7, 36492), (8, 36534), (9, 36561), (10, 36585), (Start: 11 @36594 has 12 MA's), (12, 36609), (13, 36636), (14, 36663), (16, 36756), (20, 36801),

Gene: KHumphrey\_64 Start: 36482, Stop: 36697, Start Num: 11

Candidate Starts for KHumphrey\_64:

(2, 35978), (4, 36098), (6, 36377), (7, 36380), (8, 36422), (9, 36449), (10, 36473), (Start: 11 @36482 has 12 MA's), (12, 36497), (13, 36524), (14, 36551), (16, 36644), (20, 36689),

Gene: Laphuphu24k\_62 Start: 36578, Stop: 36793, Start Num: 11

Candidate Starts for Laphuphu24k\_62:

(1, 36056), (2, 36074), (4, 36194), (6, 36473), (7, 36476), (8, 36518), (9, 36545), (10, 36569), (Start: 11 @36578 has 12 MA's), (12, 36593), (13, 36620), (14, 36647), (16, 36740), (20, 36785),

Gene: Leona\_61 Start: 36683, Stop: 36901, Start Num: 11

Candidate Starts for Leona\_61:

(2, 36179), (4, 36299), (5, 36518), (6, 36578), (7, 36581), (10, 36674), (Start: 11 @36683 has 12 MA's), (12, 36698), (13, 36728), (14, 36755), (16, 36848), (20, 36893),

Gene: Oppalora\_62 Start: 36592, Stop: 36807, Start Num: 11

Candidate Starts for Oppalora\_62:

(1, 36070), (2, 36088), (4, 36208), (6, 36487), (7, 36490), (8, 36532), (10, 36583), (Start: 11 @36592 has 12 MA's), (12, 36607), (13, 36634), (14, 36661), (16, 36754), (20, 36799),

Gene: PhluffyCoco\_63 Start: 36693, Stop: 36908, Start Num: 11

Candidate Starts for PhluffyCoco\_63:

(1, 36171), (2, 36189), (4, 36309), (6, 36588), (7, 36591), (8, 36633), (9, 36660), (10, 36684), (Start: 11 @36693 has 12 MA's), (12, 36708), (13, 36735), (14, 36762), (16, 36855), (20, 36900),

Gene: Rattail\_63 Start: 36778, Stop: 36993, Start Num: 11

Candidate Starts for Rattail\_63:

(1, 36256), (2, 36274), (4, 36394), (6, 36673), (7, 36676), (8, 36718), (9, 36745), (10, 36769), (Start: 11 @36778 has 12 MA's), (12, 36793), (13, 36820), (14, 36847), (16, 36940), (20, 36985),

Gene: Renna12\_63 Start: 36810, Stop: 37025, Start Num: 11

Candidate Starts for Renna12\_63:

(1, 36285), (2, 36303), (3, 36402), (6, 36705), (7, 36708), (8, 36750), (10, 36801), (Start: 11 @36810 has 12 MA's), (12, 36825), (13, 36852), (14, 36879), (16, 36972), (20, 37017),

Gene: StuartMinion\_53 Start: 33055, Stop: 33285, Start Num: 11

Candidate Starts for StuartMinion\_53:

(6, 32950), (7, 32953), (8, 32995), (10, 33046), (Start: 11 @33055 has 12 MA's), (12, 33070), (13, 33097), (14, 33124), (18, 33223), (19, 33250), (20, 33262), (21, 33277),