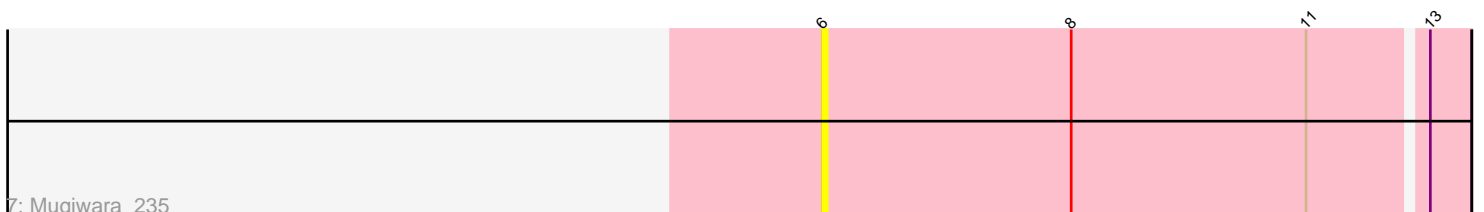
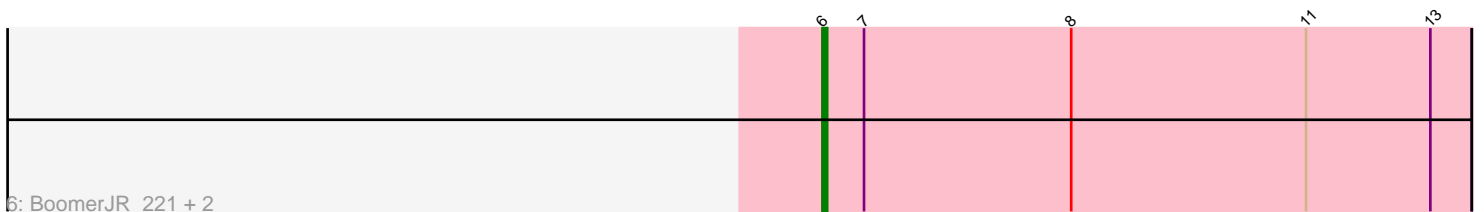
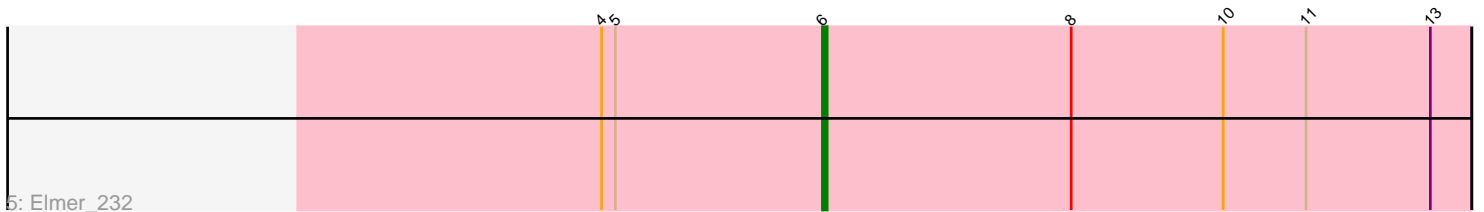
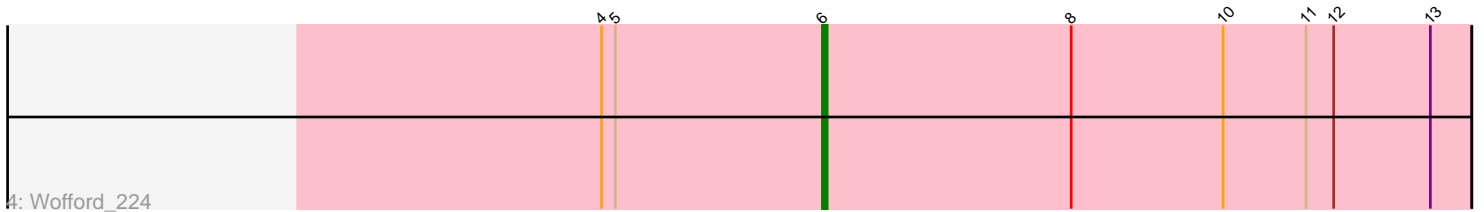
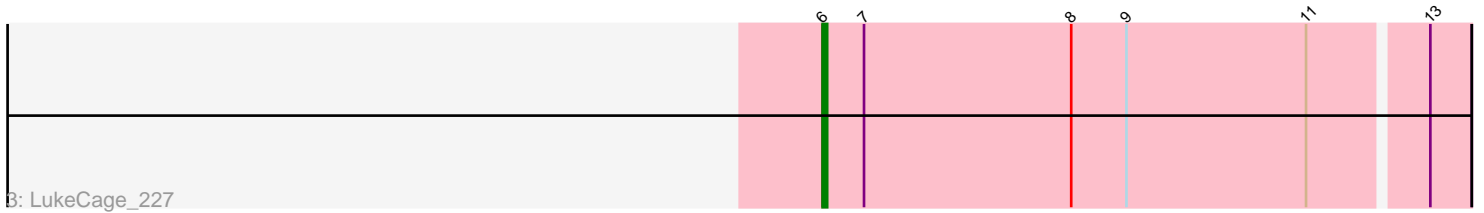
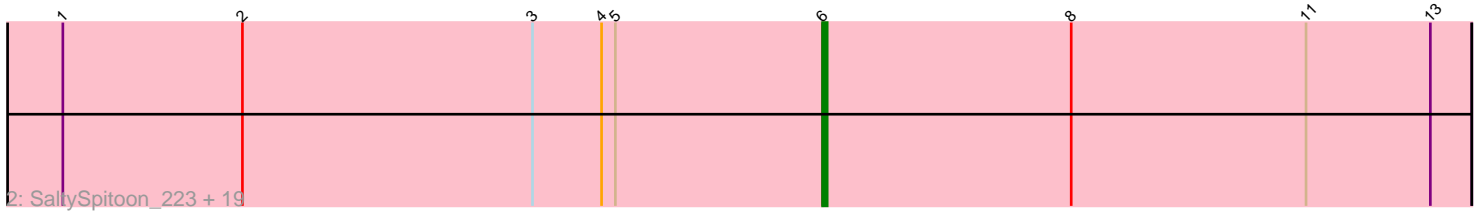
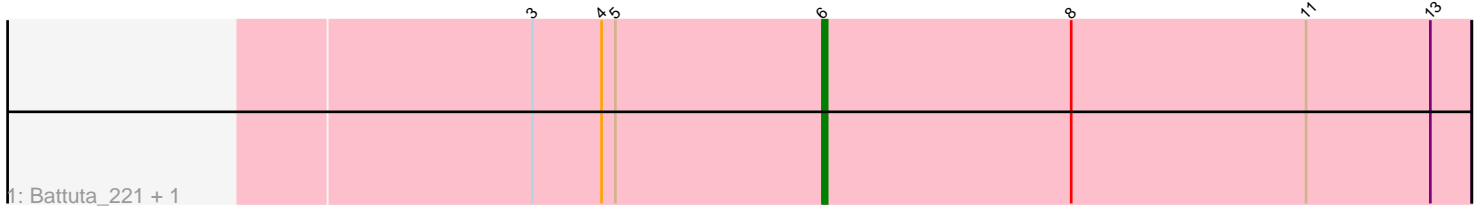


Pham 224813



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 224813 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224813 has 29 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Battuta\_221, Bordeaux\_221
- Track 2 : SaltySpitoon\_223, Starbow\_220, TomSawyer\_227, JimJam\_230, Jollison\_220, Gibbi\_231, Spelly\_228, Quaran19\_223, Rikishi\_231, Wipeout\_214, Amabiko\_227, Spilled\_230, Karimac\_223, PumpkinSpice\_226, CeilingFan\_227, Birchlyn\_222, KentuckyRacer\_229, MindFlayer\_216, IchabodCrane\_217, Enygma\_231
- Track 3 : LukeCage\_227
- Track 4 : Wofford\_224
- Track 5 : Elmer\_232
- Track 6 : BoomerJR\_221, Genie2\_221, StarPlatinum\_231
- Track 7 : Mugiwara\_235

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

The start number called the most often in the published annotations is 6, it was called in 26 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko\_227, Battuta\_221, Birchlyn\_222, BoomerJR\_221, Bordeaux\_221, CeilingFan\_227, Elmer\_232, Enygma\_231, Genie2\_221, Gibbi\_231, IchabodCrane\_217, JimJam\_230, Jollison\_220, Karimac\_223, KentuckyRacer\_229, LukeCage\_227, MindFlayer\_216, Mugiwara\_235, PumpkinSpice\_226, Quaran19\_223, Rikishi\_231, SaltySpitoon\_223, Spelly\_228, Spilled\_230, StarPlatinum\_231, Starbow\_220, TomSawyer\_227, Wipeout\_214, Wofford\_224,

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 6:

- Found in 29 of 29 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 26 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amabiko\_227 (BE2), Battuta\_221 (BE2), Birchlyn\_222 (BE2), BoomerJR\_221 (BE2), Bordeaux\_221 (BE2), CeilingFan\_227 (BE2), Elmer\_232 (BE2), Enygma\_231 (BE2), Genie2\_221 (BE2), Gibbi\_231 (BE2), IchabodCrane\_217 (BE2), JimJam\_230 (BE2), Jollison\_220 (BE2), Karimac\_223 (BE2), KentuckyRacer\_229 (BE2), LukeCage\_227 (BE2), MindFlayer\_216 (BE2), Mugiwara\_235 (BE2), PumpkinSpice\_226 (BE2), Quaran19\_223 (BE2), Rikishi\_231 (BE2), SaltySpittoon\_223 (BE2), Spelly\_228 (BE2), Spilled\_230 (BE2), StarPlatinum\_231 (BE2), Starbow\_220 (BE2), TomSawyer\_227 (BE2), Wipeout\_214 (BE2), Wofford\_224 (BE2),

### Summary by clusters:

There is one cluster represented in this pham: BE2

Info for manual annotations of cluster BE2:

- Start number 6 was manually annotated 26 times for cluster BE2.

### Gene Information:

Gene: Amabiko\_227 Start: 107130, Stop: 107270, Start Num: 6

Candidate Starts for Amabiko\_227:

(1, 106965), (2, 107004), (3, 107067), (4, 107082), (5, 107085), (Start: 6 @107130 has 26 MA's), (8, 107184), (11, 107235), (13, 107262),

Gene: Battuta\_221 Start: 106445, Stop: 106585, Start Num: 6

Candidate Starts for Battuta\_221:

(3, 106382), (4, 106397), (5, 106400), (Start: 6 @106445 has 26 MA's), (8, 106499), (11, 106550), (13, 106577),

Gene: Birchlyn\_222 Start: 104378, Stop: 104518, Start Num: 6

Candidate Starts for Birchlyn\_222:

(1, 104213), (2, 104252), (3, 104315), (4, 104330), (5, 104333), (Start: 6 @104378 has 26 MA's), (8, 104432), (11, 104483), (13, 104510),

Gene: BoomerJR\_221 Start: 107448, Stop: 107588, Start Num: 6

Candidate Starts for BoomerJR\_221:

(Start: 6 @107448 has 26 MA's), (7, 107457), (8, 107502), (11, 107553), (13, 107580),

Gene: Bordeaux\_221 Start: 107028, Stop: 107168, Start Num: 6

Candidate Starts for Bordeaux\_221:

(3, 106965), (4, 106980), (5, 106983), (Start: 6 @107028 has 26 MA's), (8, 107082), (11, 107133), (13, 107160),

Gene: CeilingFan\_227 Start: 107823, Stop: 107963, Start Num: 6

Candidate Starts for CeilingFan\_227:

(1, 107658), (2, 107697), (3, 107760), (4, 107775), (5, 107778), (Start: 6 @107823 has 26 MA's), (8, 107877), (11, 107928), (13, 107955),

Gene: Elmer\_232 Start: 110772, Stop: 110912, Start Num: 6  
Candidate Starts for Elmer\_232:  
(4, 110724), (5, 110727), (Start: 6 @110772 has 26 MA's), (8, 110826), (10, 110859), (11, 110877),  
(13, 110904),

Gene: Enygma\_231 Start: 110232, Stop: 110372, Start Num: 6  
Candidate Starts for Enygma\_231:  
(1, 110067), (2, 110106), (3, 110169), (4, 110184), (5, 110187), (Start: 6 @110232 has 26 MA's), (8,  
110286), (11, 110337), (13, 110364),

Gene: Genie2\_221 Start: 107573, Stop: 107713, Start Num: 6  
Candidate Starts for Genie2\_221:  
(Start: 6 @107573 has 26 MA's), (7, 107582), (8, 107627), (11, 107678), (13, 107705),

Gene: Gibbi\_231 Start: 107316, Stop: 107456, Start Num: 6  
Candidate Starts for Gibbi\_231:  
(1, 107151), (2, 107190), (3, 107253), (4, 107268), (5, 107271), (Start: 6 @107316 has 26 MA's), (8,  
107370), (11, 107421), (13, 107448),

Gene: IchabodCrane\_217 Start: 106831, Stop: 106971, Start Num: 6  
Candidate Starts for IchabodCrane\_217:  
(1, 106666), (2, 106705), (3, 106768), (4, 106783), (5, 106786), (Start: 6 @106831 has 26 MA's), (8,  
106885), (11, 106936), (13, 106963),

Gene: JimJam\_230 Start: 108752, Stop: 108892, Start Num: 6  
Candidate Starts for JimJam\_230:  
(1, 108587), (2, 108626), (3, 108689), (4, 108704), (5, 108707), (Start: 6 @108752 has 26 MA's), (8,  
108806), (11, 108857), (13, 108884),

Gene: Jollison\_220 Start: 106962, Stop: 107102, Start Num: 6  
Candidate Starts for Jollison\_220:  
(1, 106797), (2, 106836), (3, 106899), (4, 106914), (5, 106917), (Start: 6 @106962 has 26 MA's), (8,  
107016), (11, 107067), (13, 107094),

Gene: Karimac\_223 Start: 107147, Stop: 107287, Start Num: 6  
Candidate Starts for Karimac\_223:  
(1, 106982), (2, 107021), (3, 107084), (4, 107099), (5, 107102), (Start: 6 @107147 has 26 MA's), (8,  
107201), (11, 107252), (13, 107279),

Gene: KentuckyRacer\_229 Start: 108667, Stop: 108807, Start Num: 6  
Candidate Starts for KentuckyRacer\_229:  
(1, 108502), (2, 108541), (3, 108604), (4, 108619), (5, 108622), (Start: 6 @108667 has 26 MA's), (8,  
108721), (11, 108772), (13, 108799),

Gene: LukeCage\_227 Start: 109429, Stop: 109566, Start Num: 6  
Candidate Starts for LukeCage\_227:  
(Start: 6 @109429 has 26 MA's), (7, 109438), (8, 109483), (9, 109495), (11, 109534), (13, 109558),

Gene: MindFlyer\_216 Start: 106347, Stop: 106487, Start Num: 6  
Candidate Starts for MindFlyer\_216:  
(1, 106182), (2, 106221), (3, 106284), (4, 106299), (5, 106302), (Start: 6 @106347 has 26 MA's), (8,  
106401), (11, 106452), (13, 106479),

Gene: Mugiwara\_235 Start: 109929, Stop: 110066, Start Num: 6  
Candidate Starts for Mugiwara\_235:  
(Start: 6 @109929 has 26 MA's), (8, 109983), (11, 110034), (13, 110058),

Gene: PumpkinSpice\_226 Start: 107568, Stop: 107708, Start Num: 6  
Candidate Starts for PumpkinSpice\_226:  
(1, 107403), (2, 107442), (3, 107505), (4, 107520), (5, 107523), (Start: 6 @107568 has 26 MA's), (8, 107622), (11, 107673), (13, 107700),

Gene: Quaran19\_223 Start: 107009, Stop: 107149, Start Num: 6  
Candidate Starts for Quaran19\_223:  
(1, 106844), (2, 106883), (3, 106946), (4, 106961), (5, 106964), (Start: 6 @107009 has 26 MA's), (8, 107063), (11, 107114), (13, 107141),

Gene: Rikishi\_231 Start: 107290, Stop: 107430, Start Num: 6  
Candidate Starts for Rikishi\_231:  
(1, 107125), (2, 107164), (3, 107227), (4, 107242), (5, 107245), (Start: 6 @107290 has 26 MA's), (8, 107344), (11, 107395), (13, 107422),

Gene: SaltySpittoon\_223 Start: 106551, Stop: 106691, Start Num: 6  
Candidate Starts for SaltySpittoon\_223:  
(1, 106386), (2, 106425), (3, 106488), (4, 106503), (5, 106506), (Start: 6 @106551 has 26 MA's), (8, 106605), (11, 106656), (13, 106683),

Gene: Spelly\_228 Start: 106480, Stop: 106620, Start Num: 6  
Candidate Starts for Spelly\_228:  
(1, 106315), (2, 106354), (3, 106417), (4, 106432), (5, 106435), (Start: 6 @106480 has 26 MA's), (8, 106534), (11, 106585), (13, 106612),

Gene: Spilled\_230 Start: 107684, Stop: 107824, Start Num: 6  
Candidate Starts for Spilled\_230:  
(1, 107519), (2, 107558), (3, 107621), (4, 107636), (5, 107639), (Start: 6 @107684 has 26 MA's), (8, 107738), (11, 107789), (13, 107816),

Gene: StarPlatinum\_231 Start: 109660, Stop: 109797, Start Num: 6  
Candidate Starts for StarPlatinum\_231:  
(Start: 6 @109660 has 26 MA's), (7, 109669), (8, 109714), (11, 109765), (13, 109789),

Gene: Starbow\_220 Start: 106524, Stop: 106664, Start Num: 6  
Candidate Starts for Starbow\_220:  
(1, 106359), (2, 106398), (3, 106461), (4, 106476), (5, 106479), (Start: 6 @106524 has 26 MA's), (8, 106578), (11, 106629), (13, 106656),

Gene: TomSawyer\_227 Start: 108995, Stop: 109135, Start Num: 6  
Candidate Starts for TomSawyer\_227:  
(1, 108830), (2, 108869), (3, 108932), (4, 108947), (5, 108950), (Start: 6 @108995 has 26 MA's), (8, 109049), (11, 109100), (13, 109127),

Gene: Wipeout\_214 Start: 107947, Stop: 108087, Start Num: 6  
Candidate Starts for Wipeout\_214:  
(1, 107782), (2, 107821), (3, 107884), (4, 107899), (5, 107902), (Start: 6 @107947 has 26 MA's), (8, 108001), (11, 108052), (13, 108079),

Gene: Wofford\_224 Start: 110638, Stop: 110778, Start Num: 6

Candidate Starts for Wofford\_224:

(4, 110590), (5, 110593), (Start: 6 @110638 has 26 MA's), (8, 110692), (10, 110725), (11, 110743),  
(12, 110749), (13, 110770),