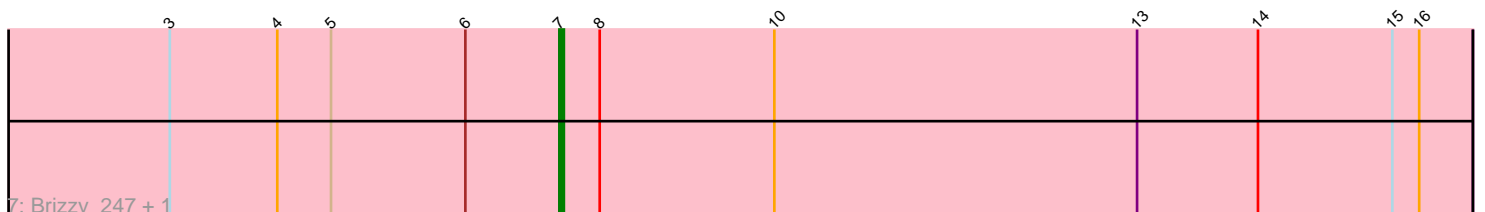
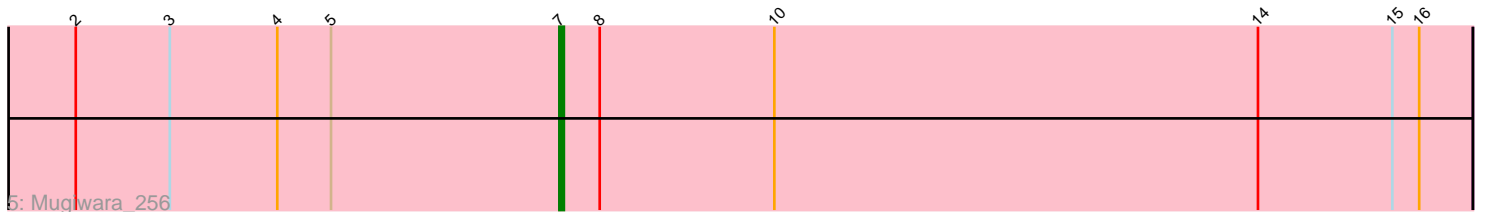
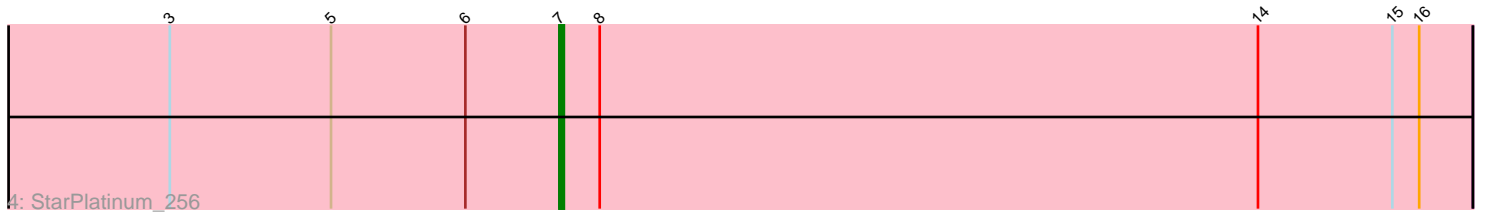
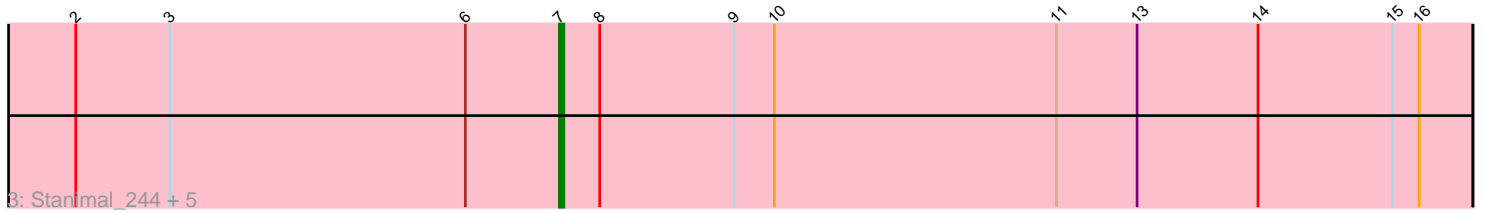
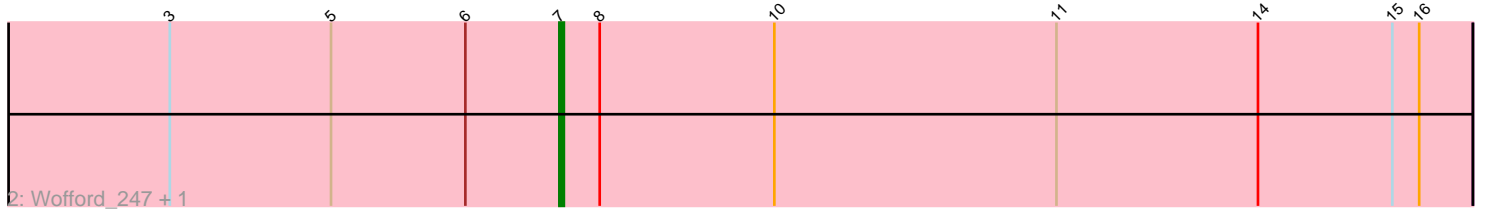
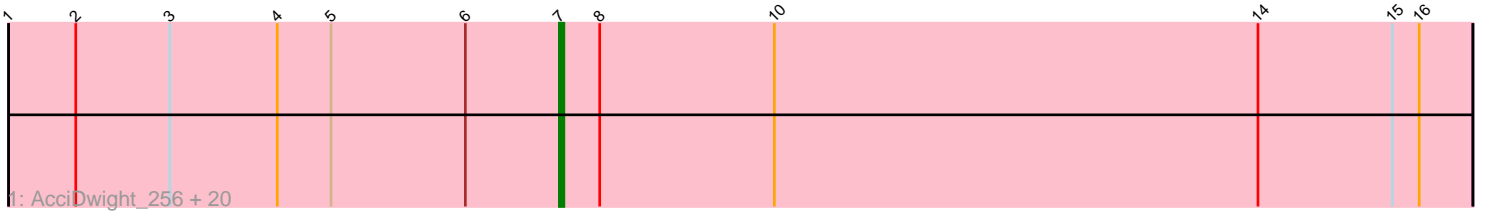


Pham 293001



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 293001 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293001 has 34 members, 2 are drafts.

Phages represented in each track:

- Track 1 : AcciDwight\_256, Rikishi\_249, IchabodCrane\_242, Spelly\_253, Quaran19\_248, TomSawyer\_252, Gibbi\_256, JimJam\_255, Jollison\_245, CeilingFan\_252, KentuckyRacer\_254, Starbow\_245, Battuta\_246, SaltySpittoon\_248, Birchlyn\_247, Amabiko\_252, Wipeout\_238, Spilled\_255, Bordeaux\_246, PumpkinSpice\_251, MindFlayer\_241
- Track 2 : Wofford\_247, Elmer\_256
- Track 3 : Stanimal\_244, Yaboi\_249, BoomerJR\_244, AngryGiraffe\_244, Genie2\_244, Sollertia\_245
- Track 4 : StarPlatinum\_256
- Track 5 : Mugiwara\_256
- Track 6 : LukeCage\_251
- Track 7 : Brizzy\_247, Karimac\_248

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

The start number called the most often in the published annotations is 7, it was called in 32 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AcciDwight\_256, Amabiko\_252, AngryGiraffe\_244, Battuta\_246, Birchlyn\_247, BoomerJR\_244, Bordeaux\_246, Brizzy\_247, CeilingFan\_252, Elmer\_256, Genie2\_244, Gibbi\_256, IchabodCrane\_242, JimJam\_255, Jollison\_245, Karimac\_248, KentuckyRacer\_254, LukeCage\_251, MindFlayer\_241, Mugiwara\_256, PumpkinSpice\_251, Quaran19\_248, Rikishi\_249, SaltySpittoon\_248, Sollertia\_245, Spelly\_253, Spilled\_255, Stanimal\_244, StarPlatinum\_256, Starbow\_245, TomSawyer\_252, Wipeout\_238, Wofford\_247, Yaboi\_249,

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 7:

- Found in 34 of 34 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 32 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AcciDwight\_256 (BE2), Amabiko\_252 (BE2), AngryGiraffe\_244 (BE2), Battuta\_246 (BE2), Birchlyn\_247 (BE2), BoomerJR\_244 (BE2), Bordeaux\_246 (BE2), Brizzy\_247 (BE2), CeilingFan\_252 (BE2), Elmer\_256 (BE2), Genie2\_244 (BE2), Gibbi\_256 (BE2), IchabodCrane\_242 (BE2), JimJam\_255 (BE2), Jollison\_245 (BE2), Karimac\_248 (BE2), KentuckyRacer\_254 (BE2), LukeCage\_251 (BE2), MindFlayer\_241 (BE2), Mugiwara\_256 (BE2), PumpkinSpice\_251 (BE2), Quaran19\_248 (BE2), Rikishi\_249 (BE2), SaltySpittoon\_248 (BE2), Sollertia\_245 (BE2), Spelly\_253 (BE2), Spilled\_255 (BE2), Stanimal\_244 (BE2), StarPlatinum\_256 (BE2), Starbow\_245 (BE2), TomSawyer\_252 (BE2), Wipeout\_238 (BE2), Wofford\_247 (BE2), Yaboi\_249 (BE2),

**Summary by clusters:**

There is one cluster represented in this pham: BE2

Info for manual annotations of cluster BE2:

- Start number 7 was manually annotated 32 times for cluster BE2.

**Gene Information:**

Gene: AcciDwight\_256 Start: 114754, Stop: 114957, Start Num: 7

Candidate Starts for AcciDwight\_256:

(1, 114631), (2, 114646), (3, 114667), (4, 114691), (5, 114703), (6, 114733), (Start: 7 @114754 has 32 MA's), (8, 114763), (10, 114802), (14, 114910), (15, 114940), (16, 114946),

Gene: Amabiko\_252 Start: 114572, Stop: 114775, Start Num: 7

Candidate Starts for Amabiko\_252:

(1, 114449), (2, 114464), (3, 114485), (4, 114509), (5, 114521), (6, 114551), (Start: 7 @114572 has 32 MA's), (8, 114581), (10, 114620), (14, 114728), (15, 114758), (16, 114764),

Gene: AngryGiraffe\_244 Start: 113876, Stop: 114079, Start Num: 7

Candidate Starts for AngryGiraffe\_244:

(2, 113768), (3, 113789), (6, 113855), (Start: 7 @113876 has 32 MA's), (8, 113885), (9, 113915), (10, 113924), (11, 113987), (13, 114005), (14, 114032), (15, 114062), (16, 114068),

Gene: Battuta\_246 Start: 113887, Stop: 114090, Start Num: 7

Candidate Starts for Battuta\_246:

(1, 113764), (2, 113779), (3, 113800), (4, 113824), (5, 113836), (6, 113866), (Start: 7 @113887 has 32 MA's), (8, 113896), (10, 113935), (14, 114043), (15, 114073), (16, 114079),

Gene: Birchlyn\_247 Start: 111820, Stop: 112023, Start Num: 7

Candidate Starts for Birchlyn\_247:

(1, 111697), (2, 111712), (3, 111733), (4, 111757), (5, 111769), (6, 111799), (Start: 7 @111820 has 32 MA's), (8, 111829), (10, 111868), (14, 111976), (15, 112006), (16, 112012),

Gene: BoomerJR\_244 Start: 114309, Stop: 114512, Start Num: 7

Candidate Starts for BoomerJR\_244:

(2, 114201), (3, 114222), (6, 114288), (Start: 7 @114309 has 32 MA's), (8, 114318), (9, 114348), (10, 114357), (11, 114420), (13, 114438), (14, 114465), (15, 114495), (16, 114501),

Gene: Bordeaux\_246 Start: 114470, Stop: 114673, Start Num: 7

Candidate Starts for Bordeaux\_246:

(1, 114347), (2, 114362), (3, 114383), (4, 114407), (5, 114419), (6, 114449), (Start: 7 @114470 has 32 MA's), (8, 114479), (10, 114518), (14, 114626), (15, 114656), (16, 114662),

Gene: Brizzy\_247 Start: 114998, Stop: 115201, Start Num: 7

Candidate Starts for Brizzy\_247:

(3, 114911), (4, 114935), (5, 114947), (6, 114977), (Start: 7 @114998 has 32 MA's), (8, 115007), (10, 115046), (13, 115127), (14, 115154), (15, 115184), (16, 115190),

Gene: CeilingFan\_252 Start: 115265, Stop: 115468, Start Num: 7

Candidate Starts for CeilingFan\_252:

(1, 115142), (2, 115157), (3, 115178), (4, 115202), (5, 115214), (6, 115244), (Start: 7 @115265 has 32 MA's), (8, 115274), (10, 115313), (14, 115421), (15, 115451), (16, 115457),

Gene: Elmer\_256 Start: 118030, Stop: 118233, Start Num: 7

Candidate Starts for Elmer\_256:

(3, 117943), (5, 117979), (6, 118009), (Start: 7 @118030 has 32 MA's), (8, 118039), (10, 118078), (11, 118141), (14, 118186), (15, 118216), (16, 118222),

Gene: Genie2\_244 Start: 114434, Stop: 114637, Start Num: 7

Candidate Starts for Genie2\_244:

(2, 114326), (3, 114347), (6, 114413), (Start: 7 @114434 has 32 MA's), (8, 114443), (9, 114473), (10, 114482), (11, 114545), (13, 114563), (14, 114590), (15, 114620), (16, 114626),

Gene: Gibbi\_256 Start: 114758, Stop: 114961, Start Num: 7

Candidate Starts for Gibbi\_256:

(1, 114635), (2, 114650), (3, 114671), (4, 114695), (5, 114707), (6, 114737), (Start: 7 @114758 has 32 MA's), (8, 114767), (10, 114806), (14, 114914), (15, 114944), (16, 114950),

Gene: IchabodCrane\_242 Start: 114273, Stop: 114476, Start Num: 7

Candidate Starts for IchabodCrane\_242:

(1, 114150), (2, 114165), (3, 114186), (4, 114210), (5, 114222), (6, 114252), (Start: 7 @114273 has 32 MA's), (8, 114282), (10, 114321), (14, 114429), (15, 114459), (16, 114465),

Gene: JimJam\_255 Start: 116194, Stop: 116397, Start Num: 7

Candidate Starts for JimJam\_255:

(1, 116071), (2, 116086), (3, 116107), (4, 116131), (5, 116143), (6, 116173), (Start: 7 @116194 has 32 MA's), (8, 116203), (10, 116242), (14, 116350), (15, 116380), (16, 116386),

Gene: Jollison\_245 Start: 114404, Stop: 114607, Start Num: 7

Candidate Starts for Jollison\_245:

(1, 114281), (2, 114296), (3, 114317), (4, 114341), (5, 114353), (6, 114383), (Start: 7 @114404 has 32 MA's), (8, 114413), (10, 114452), (14, 114560), (15, 114590), (16, 114596),

Gene: Karimac\_248 Start: 114589, Stop: 114792, Start Num: 7

Candidate Starts for Karimac\_248:

(3, 114502), (4, 114526), (5, 114538), (6, 114568), (Start: 7 @114589 has 32 MA's), (8, 114598), (10, 114637), (13, 114718), (14, 114745), (15, 114775), (16, 114781),

Gene: KentuckyRacer\_254 Start: 116109, Stop: 116312, Start Num: 7

Candidate Starts for KentuckyRacer\_254:

(1, 115986), (2, 116001), (3, 116022), (4, 116046), (5, 116058), (6, 116088), (Start: 7 @116109 has 32 MA's), (8, 116118), (10, 116157), (14, 116265), (15, 116295), (16, 116301),

Gene: LukeCage\_251 Start: 116434, Stop: 116637, Start Num: 7

Candidate Starts for LukeCage\_251:

(1, 116311), (2, 116326), (3, 116347), (4, 116371), (5, 116383), (Start: 7 @116434 has 32 MA's), (8, 116443), (12, 116548), (14, 116590), (15, 116620), (16, 116626),

Gene: MindFlayer\_241 Start: 113789, Stop: 113992, Start Num: 7

Candidate Starts for MindFlayer\_241:

(1, 113666), (2, 113681), (3, 113702), (4, 113726), (5, 113738), (6, 113768), (Start: 7 @113789 has 32 MA's), (8, 113798), (10, 113837), (14, 113945), (15, 113975), (16, 113981),

Gene: Mugiwara\_256 Start: 117140, Stop: 117343, Start Num: 7

Candidate Starts for Mugiwara\_256:

(2, 117032), (3, 117053), (4, 117077), (5, 117089), (Start: 7 @117140 has 32 MA's), (8, 117149), (10, 117188), (14, 117296), (15, 117326), (16, 117332),

Gene: PumpkinSpice\_251 Start: 115010, Stop: 115213, Start Num: 7

Candidate Starts for PumpkinSpice\_251:

(1, 114887), (2, 114902), (3, 114923), (4, 114947), (5, 114959), (6, 114989), (Start: 7 @115010 has 32 MA's), (8, 115019), (10, 115058), (14, 115166), (15, 115196), (16, 115202),

Gene: Quaran19\_248 Start: 114451, Stop: 114654, Start Num: 7

Candidate Starts for Quaran19\_248:

(1, 114328), (2, 114343), (3, 114364), (4, 114388), (5, 114400), (6, 114430), (Start: 7 @114451 has 32 MA's), (8, 114460), (10, 114499), (14, 114607), (15, 114637), (16, 114643),

Gene: Rikishi\_249 Start: 114732, Stop: 114935, Start Num: 7

Candidate Starts for Rikishi\_249:

(1, 114609), (2, 114624), (3, 114645), (4, 114669), (5, 114681), (6, 114711), (Start: 7 @114732 has 32 MA's), (8, 114741), (10, 114780), (14, 114888), (15, 114918), (16, 114924),

Gene: SaltySpittoon\_248 Start: 113993, Stop: 114196, Start Num: 7

Candidate Starts for SaltySpittoon\_248:

(1, 113870), (2, 113885), (3, 113906), (4, 113930), (5, 113942), (6, 113972), (Start: 7 @113993 has 32 MA's), (8, 114002), (10, 114041), (14, 114149), (15, 114179), (16, 114185),

Gene: Sollertia\_245 Start: 114423, Stop: 114626, Start Num: 7

Candidate Starts for Sollertia\_245:

(2, 114315), (3, 114336), (6, 114402), (Start: 7 @114423 has 32 MA's), (8, 114432), (9, 114462), (10, 114471), (11, 114534), (13, 114552), (14, 114579), (15, 114609), (16, 114615),

Gene: Spelly\_253 Start: 113922, Stop: 114125, Start Num: 7

Candidate Starts for Spelly\_253:

(1, 113799), (2, 113814), (3, 113835), (4, 113859), (5, 113871), (6, 113901), (Start: 7 @113922 has 32 MA's), (8, 113931), (10, 113970), (14, 114078), (15, 114108), (16, 114114),

Gene: Spilled\_255 Start: 115126, Stop: 115329, Start Num: 7

Candidate Starts for Spilled\_255:

(1, 115003), (2, 115018), (3, 115039), (4, 115063), (5, 115075), (6, 115105), (Start: 7 @115126 has 32 MA's), (8, 115135), (10, 115174), (14, 115282), (15, 115312), (16, 115318),

Gene: Stanimal\_244 Start: 114795, Stop: 114998, Start Num: 7

Candidate Starts for Stanimal\_244:

(2, 114687), (3, 114708), (6, 114774), (Start: 7 @114795 has 32 MA's), (8, 114804), (9, 114834), (10, 114843), (11, 114906), (13, 114924), (14, 114951), (15, 114981), (16, 114987),

Gene: StarPlatinum\_256 Start: 117210, Stop: 117413, Start Num: 7

Candidate Starts for StarPlatinum\_256:

(3, 117123), (5, 117159), (6, 117189), (Start: 7 @117210 has 32 MA's), (8, 117219), (14, 117366), (15, 117396), (16, 117402),

Gene: Starbow\_245 Start: 113966, Stop: 114169, Start Num: 7

Candidate Starts for Starbow\_245:

(1, 113843), (2, 113858), (3, 113879), (4, 113903), (5, 113915), (6, 113945), (Start: 7 @113966 has 32 MA's), (8, 113975), (10, 114014), (14, 114122), (15, 114152), (16, 114158),

Gene: TomSawyer\_252 Start: 116437, Stop: 116640, Start Num: 7

Candidate Starts for TomSawyer\_252:

(1, 116314), (2, 116329), (3, 116350), (4, 116374), (5, 116386), (6, 116416), (Start: 7 @116437 has 32 MA's), (8, 116446), (10, 116485), (14, 116593), (15, 116623), (16, 116629),

Gene: Wipeout\_238 Start: 115389, Stop: 115592, Start Num: 7

Candidate Starts for Wipeout\_238:

(1, 115266), (2, 115281), (3, 115302), (4, 115326), (5, 115338), (6, 115368), (Start: 7 @115389 has 32 MA's), (8, 115398), (10, 115437), (14, 115545), (15, 115575), (16, 115581),

Gene: Wofford\_247 Start: 117472, Stop: 117675, Start Num: 7

Candidate Starts for Wofford\_247:

(3, 117385), (5, 117421), (6, 117451), (Start: 7 @117472 has 32 MA's), (8, 117481), (10, 117520), (11, 117583), (14, 117628), (15, 117658), (16, 117664),

Gene: Yaboi\_249 Start: 114358, Stop: 114561, Start Num: 7

Candidate Starts for Yaboi\_249:

(2, 114250), (3, 114271), (6, 114337), (Start: 7 @114358 has 32 MA's), (8, 114367), (9, 114397), (10, 114406), (11, 114469), (13, 114487), (14, 114514), (15, 114544), (16, 114550),