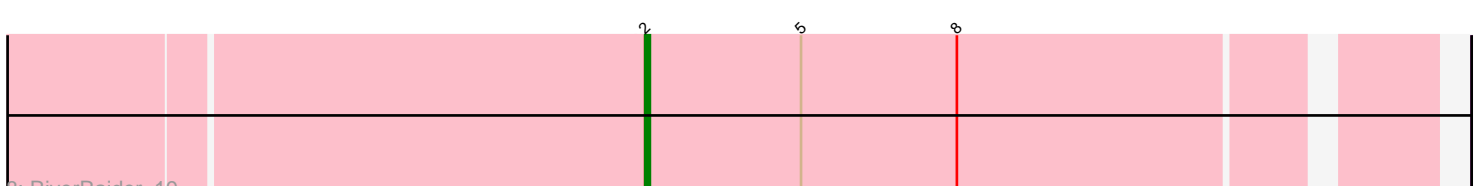
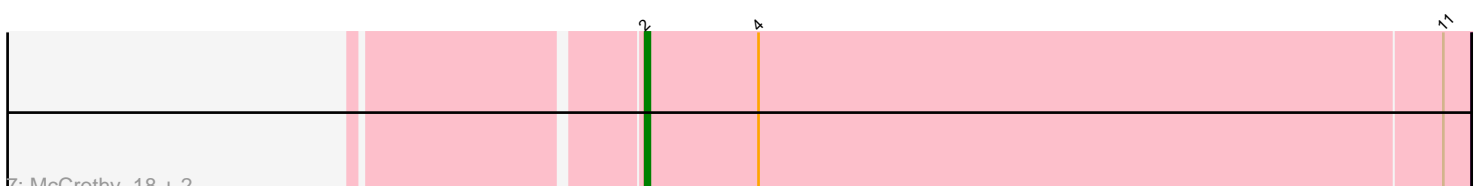
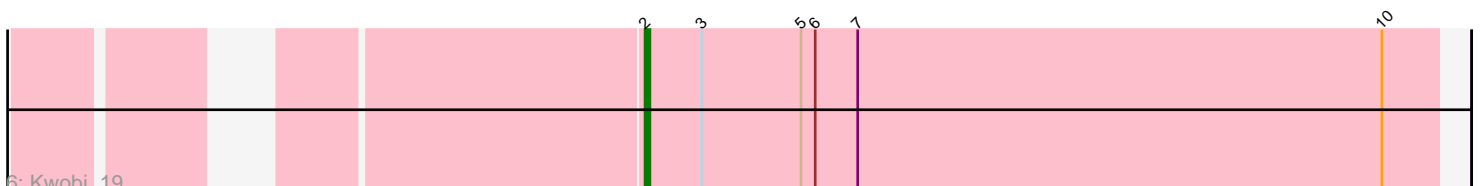
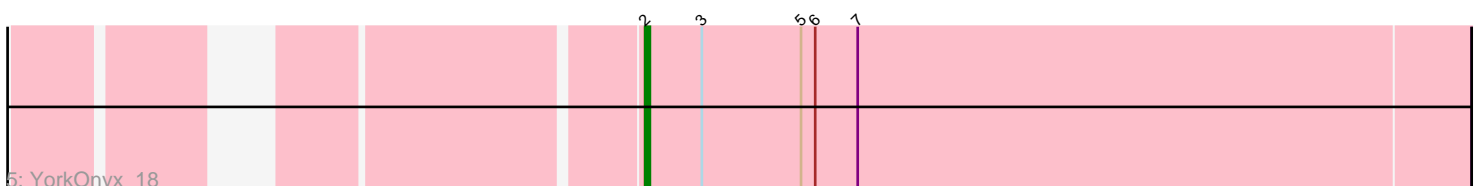
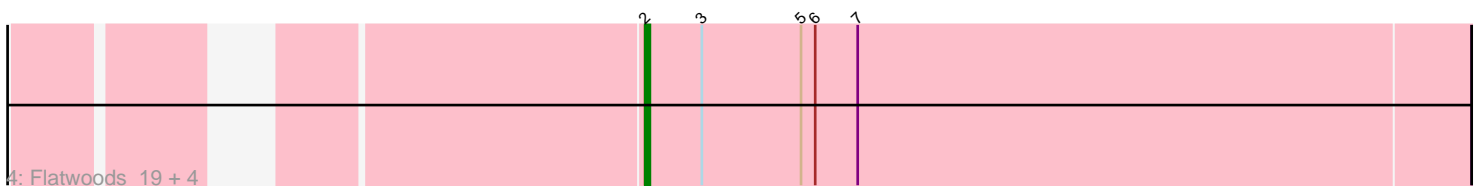
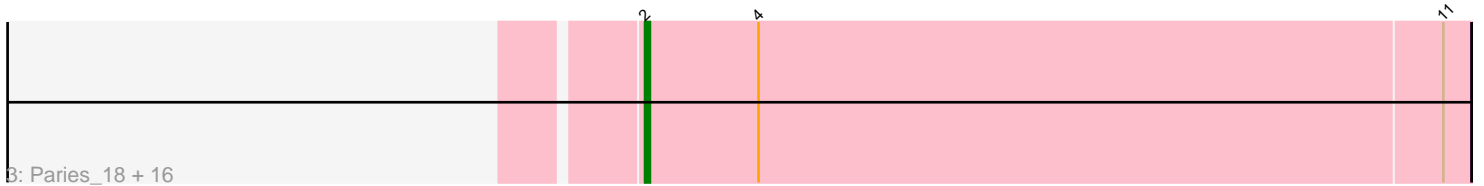
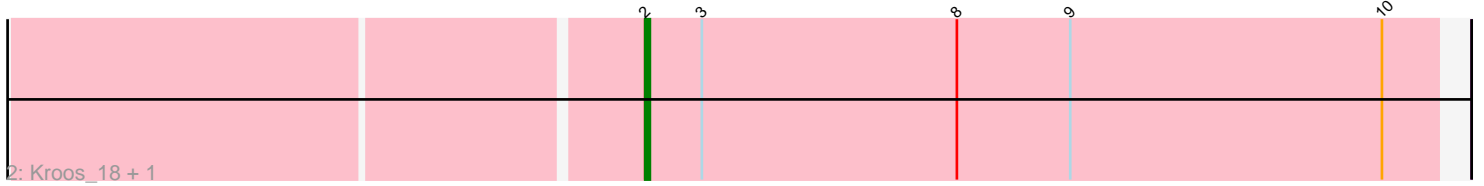
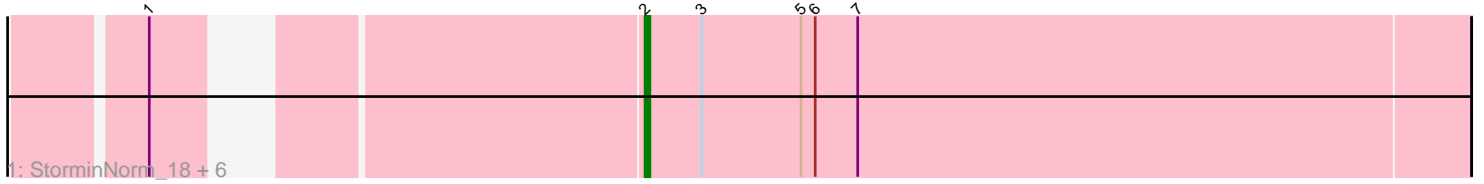


Pham 305161



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 305161 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305161 has 37 members, 1 are drafts.

Phages represented in each track:

- Track 1 : StorminNorm\_18, Tangerine\_18, Saronaya\_18, Gaea\_18, Ashertheman\_19, Gustavo\_18, Baumdotcom\_18
- Track 2 : Kroos\_18, Ribeye\_19
- Track 3 : Paries\_18, Sitar\_19, Kamashten\_19, McKinley\_19, Thing3\_19, Keitabear\_19, Lennon\_19, Vivi2\_17, Nordenberg\_12, Love\_19, Ailee\_18, Tangent\_15, Sedona\_19, Charming\_15, FuegoCuervo\_21, BobBob\_15, Brandonk123\_20
- Track 4 : Flatwoods\_19, LilHam\_16, Bizzy\_19, Tycho\_18, SchottB\_17
- Track 5 : YorkOnyx\_18
- Track 6 : Kwobi\_19
- Track 7 : McCrothy\_18, MoontowerMania\_17, Galadriel\_19
- Track 8 : RiverRaider\_19

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

The start number called the most often in the published annotations is 2, it was called in 36 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ailee\_18, Ashertheman\_19, Baumdotcom\_18, Bizzy\_19, BobBob\_15, Brandonk123\_20, Charming\_15, Flatwoods\_19, FuegoCuervo\_21, Gaea\_18, Galadriel\_19, Gustavo\_18, Kamashten\_19, Keitabear\_19, Kroos\_18, Kwobi\_19, Lennon\_19, LilHam\_16, Love\_19, McCrothy\_18, McKinley\_19, MoontowerMania\_17, Nordenberg\_12, Paries\_18, Ribeye\_19, RiverRaider\_19, Saronaya\_18, SchottB\_17, Sedona\_19, Sitar\_19, StorminNorm\_18, Tangent\_15, Tangerine\_18, Thing3\_19, Tycho\_18, Vivi2\_17, YorkOnyx\_18,

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 2:

- Found in 37 of 37 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 36 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ailee\_18 (DE1), Ashertheman\_19 (DE1), Baumdotcom\_18 (DE1), Bizzy\_19 (DE1), BobBob\_15 (DE1), Brandonk123\_20 (DE1), Charming\_15 (DE1), Flatwoods\_19 (DE1), FuegoCuervo\_21 (DE1), Gaea\_18 (DE1), Galadriel\_19 (DE1), Gustavo\_18 (DE1), Kamashten\_19 (DE1), Keitabear\_19 (DE1), Kroos\_18 (DE1), Kwobi\_19 (DE1), Lennon\_19 (DE1), LilHam\_16 (DE1), Love\_19 (DE1), McCrothy\_18 (DE1), McKinley\_19 (DE1), MoontowerMania\_17 (DE1), Nordenberg\_12 (DE1), Paries\_18 (DE1), Ribeye\_19 (DE1), RiverRaider\_19 (DE1), Saronaya\_18 (DE1), SchottB\_17 (DE1), Sedona\_19 (DE1), Sitar\_19 (DE1), StorminNorm\_18 (DE1), Tangent\_15 (DE1), Tangerine\_18 (DE1), Thing3\_19 (DE1), Tycho\_18 (DE1), Vivi2\_17 (DE1), YorkOnyx\_18 (DE1),

## Summary by clusters:

There is one cluster represented in this pham: DE1

Info for manual annotations of cluster DE1:

- Start number 2 was manually annotated 36 times for cluster DE1.

### **Gene Information:**

Gene: Ailee\_18 Start: 14837, Stop: 15010, Start Num: 2

Candidate Starts for Ailee\_18:

(Start: 2 @14837 has 36 MA's), (4, 14861), (11, 15005),

Gene: Ashertheman\_19 Start: 14435, Stop: 14608, Start Num: 2

Candidate Starts for Ashertheman\_19:

(1, 14348), (Start: 2 @14435 has 36 MA's), (3, 14447), (5, 14468), (6, 14471), (7, 14480),

Gene: Baumdotcom\_18 Start: 14051, Stop: 14224, Start Num: 2

Candidate Starts for Baumdotcom\_18:

(1, 13964), (Start: 2 @14051 has 36 MA's), (3, 14063), (5, 14084), (6, 14087), (7, 14096),

Gene: Bizzy\_19 Start: 14330, Stop: 14503, Start Num: 2

Candidate Starts for Bizzy\_19:

(Start: 2 @14330 has 36 MA's), (3, 14342), (5, 14363), (6, 14366), (7, 14375),

Gene: BobBob\_15 Start: 13282, Stop: 13455, Start Num: 2

Candidate Starts for BobBob\_15:

(Start: 2 @13282 has 36 MA's), (4, 13306), (11, 13450),

Gene: Brandonk123\_20 Start: 14411, Stop: 14584, Start Num: 2

Candidate Starts for Brandonk123\_20:

(Start: 2 @14411 has 36 MA's), (4, 14435), (11, 14579),

Gene: Charming\_15 Start: 13284, Stop: 13457, Start Num: 2

Candidate Starts for Charming\_15:

(Start: 2 @13284 has 36 MA's), (4, 13308), (11, 13452),

Gene: Flatwoods\_19 Start: 14337, Stop: 14510, Start Num: 2

Candidate Starts for Flatwoods\_19:

(Start: 2 @14337 has 36 MA's), (3, 14349), (5, 14370), (6, 14373), (7, 14382),

Gene: FuegoCuervo\_21 Start: 13899, Stop: 14072, Start Num: 2

Candidate Starts for FuegoCuervo\_21:

(Start: 2 @13899 has 36 MA's), (4, 13923), (11, 14067),

Gene: Gaea\_18 Start: 14031, Stop: 14204, Start Num: 2

Candidate Starts for Gaea\_18:

(1, 13944), (Start: 2 @14031 has 36 MA's), (3, 14043), (5, 14064), (6, 14067), (7, 14076),

Gene: Galadriel\_19 Start: 14032, Stop: 14205, Start Num: 2

Candidate Starts for Galadriel\_19:

(Start: 2 @14032 has 36 MA's), (4, 14056), (11, 14200),

Gene: Gustavo\_18 Start: 14142, Stop: 14315, Start Num: 2

Candidate Starts for Gustavo\_18:

(1, 14055), (Start: 2 @14142 has 36 MA's), (3, 14154), (5, 14175), (6, 14178), (7, 14187),

Gene: Kamashten\_19 Start: 15264, Stop: 15437, Start Num: 2

Candidate Starts for Kamashten\_19:

(Start: 2 @15264 has 36 MA's), (4, 15288), (11, 15432),

Gene: Keitabear\_19 Start: 16376, Stop: 16549, Start Num: 2

Candidate Starts for Keitabear\_19:

(Start: 2 @16376 has 36 MA's), (4, 16400), (11, 16544),

Gene: Kroos\_18 Start: 14451, Stop: 14618, Start Num: 2

Candidate Starts for Kroos\_18:

(Start: 2 @14451 has 36 MA's), (3, 14463), (8, 14517), (9, 14541), (10, 14607),

Gene: Kwobi\_19 Start: 14427, Stop: 14594, Start Num: 2

Candidate Starts for Kwobi\_19:

(Start: 2 @14427 has 36 MA's), (3, 14439), (5, 14460), (6, 14463), (7, 14472), (10, 14583),

Gene: Lennon\_19 Start: 15480, Stop: 15653, Start Num: 2

Candidate Starts for Lennon\_19:

(Start: 2 @15480 has 36 MA's), (4, 15504), (11, 15648),

Gene: LilHam\_16 Start: 13449, Stop: 13622, Start Num: 2

Candidate Starts for LilHam\_16:

(Start: 2 @13449 has 36 MA's), (3, 13461), (5, 13482), (6, 13485), (7, 13494),

Gene: Love\_19 Start: 14343, Stop: 14516, Start Num: 2

Candidate Starts for Love\_19:

(Start: 2 @14343 has 36 MA's), (4, 14367), (11, 14511),

Gene: McCrothy\_18 Start: 14209, Stop: 14382, Start Num: 2

Candidate Starts for McCrothy\_18:

(Start: 2 @14209 has 36 MA's), (4, 14233), (11, 14377),

Gene: McKinley\_19 Start: 14802, Stop: 14975, Start Num: 2

Candidate Starts for McKinley\_19:

(Start: 2 @14802 has 36 MA's), (4, 14826), (11, 14970),

Gene: MoontowerMania\_17 Start: 13786, Stop: 13959, Start Num: 2

Candidate Starts for MoontowerMania\_17:

(Start: 2 @13786 has 36 MA's), (4, 13810), (11, 13954),

Gene: Nordenberg\_12 Start: 12663, Stop: 12836, Start Num: 2

Candidate Starts for Nordenberg\_12:

(Start: 2 @12663 has 36 MA's), (4, 12687), (11, 12831),

Gene: Paries\_18 Start: 14031, Stop: 14204, Start Num: 2

Candidate Starts for Paries\_18:

(Start: 2 @14031 has 36 MA's), (4, 14055), (11, 14199),

Gene: Ribeye\_19 Start: 14905, Stop: 15072, Start Num: 2

Candidate Starts for Ribeye\_19:

(Start: 2 @14905 has 36 MA's), (3, 14917), (8, 14971), (9, 14995), (10, 15061),

Gene: RiverRaider\_19 Start: 13773, Stop: 13931, Start Num: 2

Candidate Starts for RiverRaider\_19:

(Start: 2 @13773 has 36 MA's), (5, 13806), (8, 13839),

Gene: Saronaya\_18 Start: 14142, Stop: 14315, Start Num: 2

Candidate Starts for Saronaya\_18:

(1, 14055), (Start: 2 @14142 has 36 MA's), (3, 14154), (5, 14175), (6, 14178), (7, 14187),

Gene: SchottB\_17 Start: 15131, Stop: 15304, Start Num: 2

Candidate Starts for SchottB\_17:

(Start: 2 @15131 has 36 MA's), (3, 15143), (5, 15164), (6, 15167), (7, 15176),

Gene: Sedona\_19 Start: 16109, Stop: 16282, Start Num: 2

Candidate Starts for Sedona\_19:

(Start: 2 @16109 has 36 MA's), (4, 16133), (11, 16277),

Gene: Sitar\_19 Start: 15480, Stop: 15653, Start Num: 2

Candidate Starts for Sitar\_19:

(Start: 2 @15480 has 36 MA's), (4, 15504), (11, 15648),

Gene: StorminNorm\_18 Start: 14022, Stop: 14195, Start Num: 2

Candidate Starts for StorminNorm\_18:

(1, 13935), (Start: 2 @14022 has 36 MA's), (3, 14034), (5, 14055), (6, 14058), (7, 14067),

Gene: Tangent\_15 Start: 13284, Stop: 13457, Start Num: 2

Candidate Starts for Tangent\_15:

(Start: 2 @13284 has 36 MA's), (4, 13308), (11, 13452),

Gene: Tangerine\_18 Start: 14028, Stop: 14201, Start Num: 2

Candidate Starts for Tangerine\_18:

(1, 13941), (Start: 2 @14028 has 36 MA's), (3, 14040), (5, 14061), (6, 14064), (7, 14073),

Gene: Thing3\_19 Start: 15264, Stop: 15437, Start Num: 2

Candidate Starts for Thing3\_19:

(Start: 2 @15264 has 36 MA's), (4, 15288), (11, 15432),

Gene: Tycho\_18 Start: 14145, Stop: 14318, Start Num: 2

Candidate Starts for Tycho\_18:

(Start: 2 @14145 has 36 MA's), (3, 14157), (5, 14178), (6, 14181), (7, 14190),

Gene: Vivi2\_17 Start: 14455, Stop: 14628, Start Num: 2

Candidate Starts for Vivi2\_17:

(Start: 2 @14455 has 36 MA's), (4, 14479), (11, 14623),

Gene: YorkOnyx\_18 Start: 13977, Stop: 14150, Start Num: 2

Candidate Starts for YorkOnyx\_18:

(Start: 2 @13977 has 36 MA's), (3, 13989), (5, 14010), (6, 14013), (7, 14022),