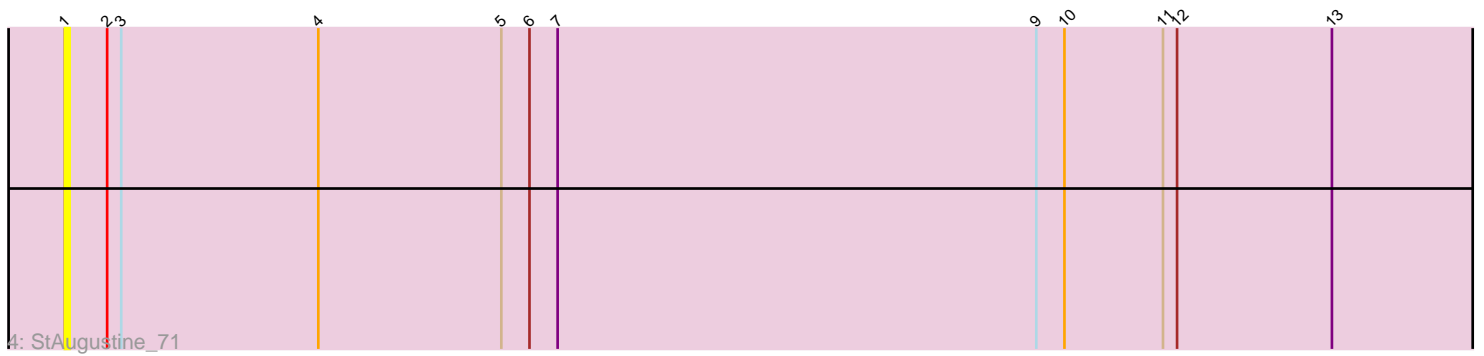
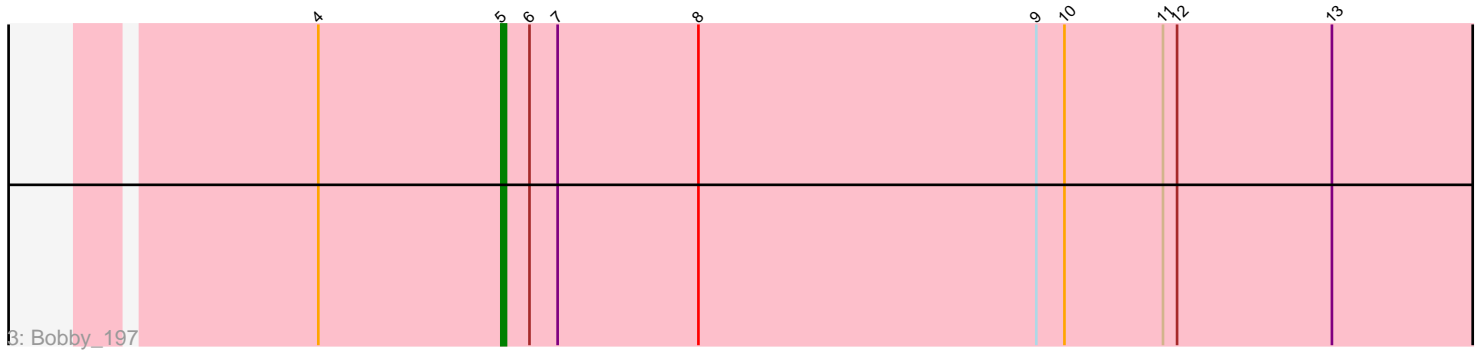
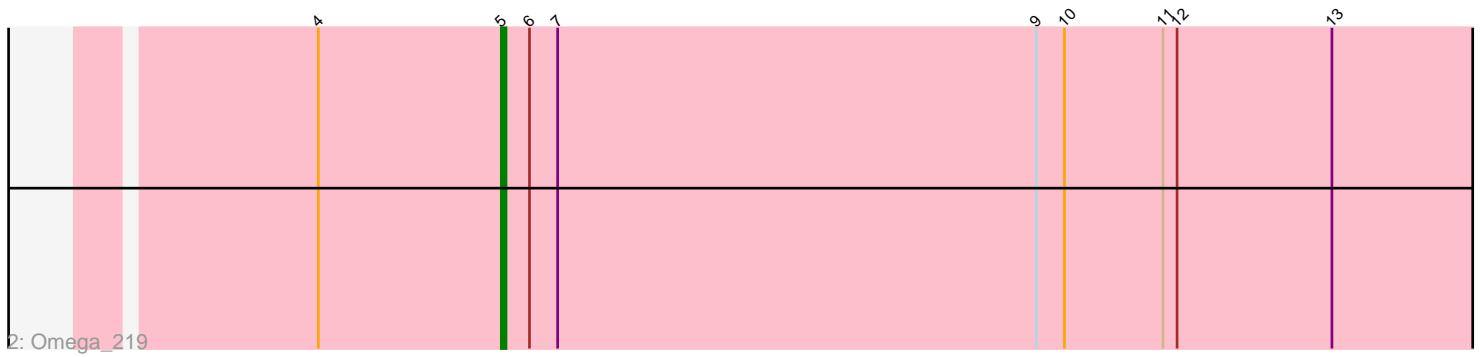
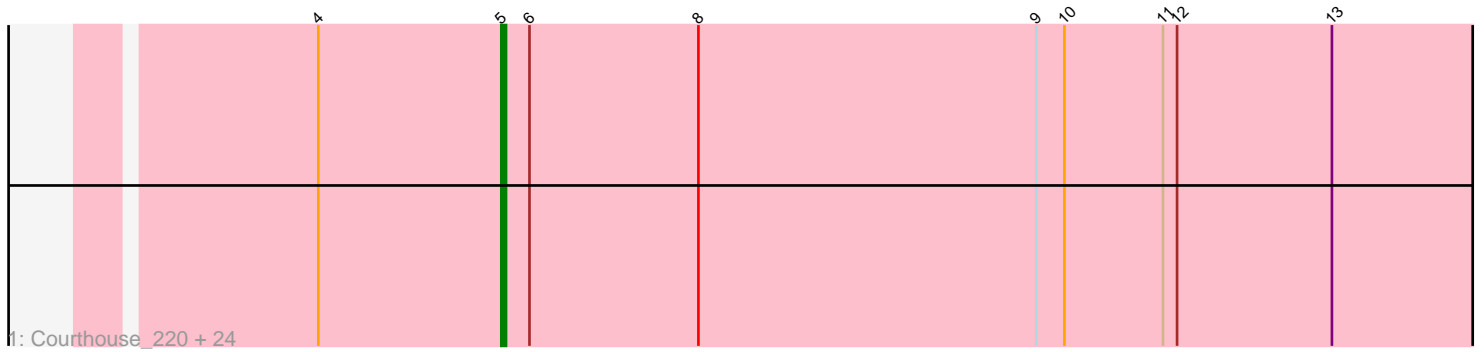


Pham 3216



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 3216 Report

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

Pham number 3216 has 28 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Courthouse_220, Yeet_210, Hannaconda_208, JuicyJay_211, Beem_218, Squint_214, Ariel_223, Dallas_216, Ejimix_208, Redno2_208, Superphikiman_216, Bagrid_224, Bombitas_201, EricMillard_214, Constella_208, Gonephishing_213, Hughesyang_217, ThreeRngTarjay_216, Dove_210, KashFlow_209, NihilNomen_219, Halley_220, Optimus_212, Duke13_219, Zelink_209
- Track 2 : Omega_219
- Track 3 : Bobby_197
- Track 4 : StAugustine_71

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

The start number called the most often in the published annotations is 5, it was called in 24 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_223, Bagrid_224, Beem_218, Bobby_197, Bombitas_201, Constella_208, Courthouse_220, Dallas_216, Dove_210, Duke13_219, Ejimix_208, EricMillard_214, Gonephishing_213, Halley_220, Hannaconda_208, Hughesyang_217, JuicyJay_211, KashFlow_209, NihilNomen_219, Omega_219, Optimus_212, Redno2_208, Squint_214, Superphikiman_216, ThreeRngTarjay_216, Yeet_210, Zelink_209,

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

- StAugustine_71,

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

•

Summary by start number:

Start 1:

- Found in 1 of 28 (3.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: StAugustine_71 (singleton),

Start 5:

- Found in 28 of 28 (100.0%) of genes in pham
- Manual Annotations of this start: 24 of 24
- Called 96.4% of time when present
- Phage (with cluster) where this start called: Ariel_223 (J), Bagrid_224 (J), Beem_218 (J), Bobby_197 (J), Bombitas_201 (J), Constella_208 (J), Courthouse_220 (J), Dallas_216 (J), Dove_210 (J), Duke13_219 (J), Ejimix_208 (J), EricMillard_214 (J), Gonephishing_213 (J), Halley_220 (J), Hannaconda_208 (J), Hughesyang_217 (J), JuicyJay_211 (J), KashFlow_209 (J), NihilNomen_219 (J), Omega_219 (J), Optimus_212 (J), Redno2_208 (J), Squint_214 (J), Superphikiman_216 (J), ThreeRngTarjay_216 (J), Yeet_210 (J), Zelink_209 (J),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, J,

Info for manual annotations of cluster J:

- Start number 5 was manually annotated 24 times for cluster J.

Gene Information:

Gene: Ariel_223 Start: 103246, Stop: 103016, Start Num: 5

Candidate Starts for Ariel_223:

(4, 103285), (Start: 5 @103246 has 24 MA's), (6, 103240), (8, 103204), (9, 103132), (10, 103126), (11, 103105), (12, 103102), (13, 103069),

Gene: Bagrid_224 Start: 107345, Stop: 107118, Start Num: 5

Candidate Starts for Bagrid_224:

(4, 107384), (Start: 5 @107345 has 24 MA's), (6, 107339), (8, 107303), (9, 107231), (10, 107225), (11, 107204), (12, 107201), (13, 107168),

Gene: Beem_218 Start: 106113, Stop: 105883, Start Num: 5

Candidate Starts for Beem_218:

(4, 106152), (Start: 5 @106113 has 24 MA's), (6, 106107), (8, 106071), (9, 105999), (10, 105993), (11, 105972), (12, 105969), (13, 105936),

Gene: Bobby_197 Start: 104055, Stop: 103825, Start Num: 5

Candidate Starts for Bobby_197:

(4, 104094), (Start: 5 @104055 has 24 MA's), (6, 104049), (7, 104043), (8, 104013), (9, 103941), (10, 103935), (11, 103914), (12, 103911), (13, 103878),

Gene: Bombitas_201 Start: 102602, Stop: 102372, Start Num: 5

Candidate Starts for Bombitas_201:

(4, 102641), (Start: 5 @102602 has 24 MA's), (6, 102596), (8, 102560), (9, 102488), (10, 102482), (11, 102461), (12, 102458), (13, 102425),

Gene: Constella_208 Start: 104283, Stop: 104053, Start Num: 5

Candidate Starts for Constella_208:

(4, 104322), (Start: 5 @104283 has 24 MA's), (6, 104277), (8, 104241), (9, 104169), (10, 104163), (11, 104142), (12, 104139), (13, 104106),

Gene: Courthouse_220 Start: 104106, Stop: 103876, Start Num: 5

Candidate Starts for Courthouse_220:

(4, 104145), (Start: 5 @104106 has 24 MA's), (6, 104100), (8, 104064), (9, 103992), (10, 103986), (11, 103965), (12, 103962), (13, 103929),

Gene: Dallas_216 Start: 104892, Stop: 104662, Start Num: 5

Candidate Starts for Dallas_216:

(4, 104931), (Start: 5 @104892 has 24 MA's), (6, 104886), (8, 104850), (9, 104778), (10, 104772), (11, 104751), (12, 104748), (13, 104715),

Gene: Dove_210 Start: 101224, Stop: 100997, Start Num: 5

Candidate Starts for Dove_210:

(4, 101263), (Start: 5 @101224 has 24 MA's), (6, 101218), (8, 101182), (9, 101110), (10, 101104), (11, 101083), (12, 101080), (13, 101047),

Gene: Duke13_219 Start: 105564, Stop: 105334, Start Num: 5

Candidate Starts for Duke13_219:

(4, 105603), (Start: 5 @105564 has 24 MA's), (6, 105558), (8, 105522), (9, 105450), (10, 105444), (11, 105423), (12, 105420), (13, 105387),

Gene: Ejimix_208 Start: 104518, Stop: 104291, Start Num: 5

Candidate Starts for Ejimix_208:

(4, 104557), (Start: 5 @104518 has 24 MA's), (6, 104512), (8, 104476), (9, 104404), (10, 104398), (11, 104377), (12, 104374), (13, 104341),

Gene: EricMillard_214 Start: 106237, Stop: 106010, Start Num: 5

Candidate Starts for EricMillard_214:

(4, 106276), (Start: 5 @106237 has 24 MA's), (6, 106231), (8, 106195), (9, 106123), (10, 106117), (11, 106096), (12, 106093), (13, 106060),

Gene: Gonephishing_213 Start: 103723, Stop: 103493, Start Num: 5

Candidate Starts for Gonephishing_213:

(4, 103762), (Start: 5 @103723 has 24 MA's), (6, 103717), (8, 103681), (9, 103609), (10, 103603), (11, 103582), (12, 103579), (13, 103546),

Gene: Halley_220 Start: 105131, Stop: 104904, Start Num: 5

Candidate Starts for Halley_220:

(4, 105170), (Start: 5 @105131 has 24 MA's), (6, 105125), (8, 105089), (9, 105017), (10, 105011), (11, 104990), (12, 104987), (13, 104954),

Gene: Hannaconda_208 Start: 104551, Stop: 104321, Start Num: 5

Candidate Starts for Hannaconda_208:

(4, 104590), (Start: 5 @104551 has 24 MA's), (6, 104545), (8, 104509), (9, 104437), (10, 104431), (11, 104410), (12, 104407), (13, 104374),

Gene: Hughesyang_217 Start: 105791, Stop: 105564, Start Num: 5

Candidate Starts for Hughesyang_217:

(4, 105830), (Start: 5 @105791 has 24 MA's), (6, 105785), (8, 105749), (9, 105677), (10, 105671), (11, 105650), (12, 105647), (13, 105614),

Gene: JuicyJay_211 Start: 106062, Stop: 105835, Start Num: 5

Candidate Starts for JuicyJay_211:

(4, 106101), (Start: 5 @106062 has 24 MA's), (6, 106056), (8, 106020), (9, 105948), (10, 105942), (11, 105921), (12, 105918), (13, 105885),

Gene: KashFlow_209 Start: 104445, Stop: 104215, Start Num: 5

Candidate Starts for KashFlow_209:

(4, 104484), (Start: 5 @104445 has 24 MA's), (6, 104439), (8, 104403), (9, 104331), (10, 104325), (11, 104304), (12, 104301), (13, 104268),

Gene: NihilNomen_219 Start: 104312, Stop: 104082, Start Num: 5

Candidate Starts for NihilNomen_219:

(4, 104351), (Start: 5 @104312 has 24 MA's), (6, 104306), (8, 104270), (9, 104198), (10, 104192), (11, 104171), (12, 104168), (13, 104135),

Gene: Omega_219 Start: 105841, Stop: 105611, Start Num: 5

Candidate Starts for Omega_219:

(4, 105880), (Start: 5 @105841 has 24 MA's), (6, 105835), (7, 105829), (9, 105727), (10, 105721), (11, 105700), (12, 105697), (13, 105664),

Gene: Optimus_212 Start: 104619, Stop: 104389, Start Num: 5

Candidate Starts for Optimus_212:

(4, 104658), (Start: 5 @104619 has 24 MA's), (6, 104613), (8, 104577), (9, 104505), (10, 104499), (11, 104478), (12, 104475), (13, 104442),

Gene: Redno2_208 Start: 101952, Stop: 101725, Start Num: 5

Candidate Starts for Redno2_208:

(4, 101991), (Start: 5 @101952 has 24 MA's), (6, 101946), (8, 101910), (9, 101838), (10, 101832), (11, 101811), (12, 101808), (13, 101775),

Gene: Squint_214 Start: 103003, Stop: 102773, Start Num: 5

Candidate Starts for Squint_214:

(4, 103042), (Start: 5 @103003 has 24 MA's), (6, 102997), (8, 102961), (9, 102889), (10, 102883), (11, 102862), (12, 102859), (13, 102826),

Gene: StAugustine_71 Start: 54920, Stop: 54597, Start Num: 1

Candidate Starts for StAugustine_71:

(1, 54920), (2, 54911), (3, 54908), (4, 54866), (Start: 5 @54827 has 24 MA's), (6, 54821), (7, 54815), (9, 54713), (10, 54707), (11, 54686), (12, 54683), (13, 54650),

Gene: Superphikiman_216 Start: 103067, Stop: 102837, Start Num: 5

Candidate Starts for Superphikiman_216:

(4, 103106), (Start: 5 @103067 has 24 MA's), (6, 103061), (8, 103025), (9, 102953), (10, 102947), (11, 102926), (12, 102923), (13, 102890),

Gene: ThreeRngTarjay_216 Start: 106556, Stop: 106329, Start Num: 5

Candidate Starts for ThreeRngTarjay_216:

(4, 106595), (Start: 5 @106556 has 24 MA's), (6, 106550), (8, 106514), (9, 106442), (10, 106436), (11, 106415), (12, 106412), (13, 106379),

Gene: Yeet_210 Start: 104151, Stop: 103924, Start Num: 5

Candidate Starts for Yeet_210:

(4, 104190), (Start: 5 @104151 has 24 MA's), (6, 104145), (8, 104109), (9, 104037), (10, 104031), (11, 104010), (12, 104007), (13, 103974),

Gene: Zelink_209 Start: 104289, Stop: 104059, Start Num: 5

Candidate Starts for Zelink_209:

(4, 104328), (Start: 5 @104289 has 24 MA's), (6, 104283), (8, 104247), (9, 104175), (10, 104169), (11, 104148), (12, 104145), (13, 104112),