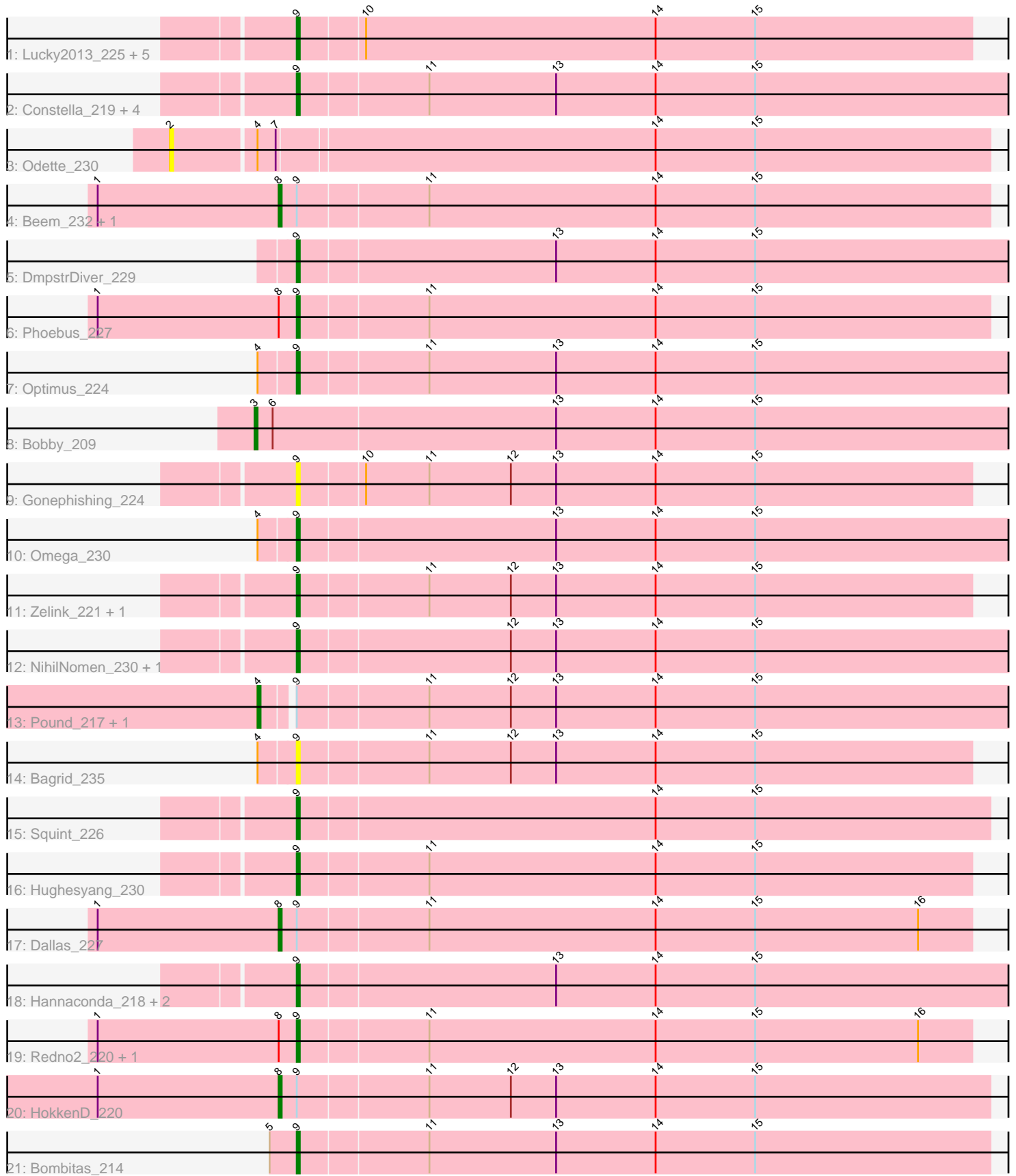


Pham 86076



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 86076 Report

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

Pham number 86076 has 37 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Lucky2013_225, EricMillard_226, Wanda_227, Porcelain_229, MiaZeal_238, Klein_235
- Track 2 : Constella_219, Courthouse_232, Thibault_203, Ariel_236, Superphikiman_228
- Track 3 : Odette_230
- Track 4 : Beem_232, JuicyJay_224
- Track 5 : DmpstrDiver_229
- Track 6 : Phoebus_227
- Track 7 : Optimus_224
- Track 8 : Bobby_209
- Track 9 : Gonephishing_224
- Track 10 : Omega_230
- Track 11 : Zelink_221, ThreeRngTarjay_228
- Track 12 : NihilNomen_230, Schatzie_220
- Track 13 : Pound_217, Minerva_227
- Track 14 : Bagrid_235
- Track 15 : Squint_226
- Track 16 : Hughesyang_230
- Track 17 : Dallas_227
- Track 18 : Hannaconda_218, KashFlow_220, Yeet_222
- Track 19 : Redno2_220, Halley_231
- Track 20 : HokkenD_220
- Track 21 : Bombitas_214

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

The start number called the most often in the published annotations is 9, it was called in 27 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_236, Bagrid_235, Bombitas_214, Constella_219, Courthouse_232, DmpstrDiver_229, EricMillard_226, Gonephishing_224, Halley_231, Hannaconda_218, Hughesyang_230, KashFlow_220, Klein_235, Lucky2013_225, MiaZeal_238, NihilNomen_230, Omega_230, Optimus_224, Phoebus_227,

Porcelain_229, Redno2_220, Schatzie_220, Squint_226, Superphikiman_228, Thibault_203, ThreeRngTarjay_228, Wanda_227, Yeet_222, Zelink_221,

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

- Beem_232, Dallas_227, HokkenD_220, JuicyJay_224, Minerva_227, Pound_217,

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

- Bobby_209, Odette_230,

Summary by start number:

Start 2:

- Found in 1 of 37 (2.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Odette_230 (J),

Start 3:

- Found in 1 of 37 (2.7%) of genes in pham
- Manual Annotations of this start: 1 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bobby_209 (J),

Start 4:

- Found in 6 of 37 (16.2%) of genes in pham
- Manual Annotations of this start: 2 of 34
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Minerva_227 (J), Pound_217 (J),

Start 8:

- Found in 7 of 37 (18.9%) of genes in pham
- Manual Annotations of this start: 4 of 34
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Beem_232 (J), Dallas_227 (J), HokkenD_220 (J), JuicyJay_224 (J),

Start 9:

- Found in 35 of 37 (94.6%) of genes in pham
- Manual Annotations of this start: 27 of 34
- Called 82.9% of time when present
- Phage (with cluster) where this start called: Ariel_236 (J), Bagrid_235 (J), Bombitas_214 (J), Constella_219 (J), Courthouse_232 (J), DmpstrDiver_229 (J), EricMillard_226 (J), Gonephishing_224 (J), Halley_231 (J), Hannaconda_218 (J), Hughesyang_230 (J), KashFlow_220 (J), Klein_235 (J), Lucky2013_225 (J), MiaZeal_238 (J), NihilNomen_230 (J), Omega_230 (J), Optimus_224 (J), Phoebus_227 (J), Porcelain_229 (J), Redno2_220 (J), Schatzie_220 (J), Squint_226 (J), Superphikiman_228 (J), Thibault_203 (J), ThreeRngTarjay_228 (J), Wanda_227 (J), Yeet_222 (J), Zelink_221 (J),

Summary by clusters:

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 3 was manually annotated 1 time for cluster J.
- Start number 4 was manually annotated 2 times for cluster J.
- Start number 8 was manually annotated 4 times for cluster J.
- Start number 9 was manually annotated 27 times for cluster J.

Gene Information:

Gene: Ariel_236 Start: 106582, Stop: 106355, Start Num: 9

Candidate Starts for Ariel_236:

(Start: 9 @106582 has 27 MA's), (11, 106540), (13, 106498), (14, 106465), (15, 106432),

Gene: Bagrid_235 Start: 110525, Stop: 110304, Start Num: 9

Candidate Starts for Bagrid_235:

(Start: 4 @110534 has 2 MA's), (Start: 9 @110525 has 27 MA's), (11, 110483), (12, 110456), (13, 110441), (14, 110408), (15, 110375),

Gene: Beem_232 Start: 109372, Stop: 109139, Start Num: 8

Candidate Starts for Beem_232:

(1, 109432), (Start: 8 @109372 has 4 MA's), (Start: 9 @109366 has 27 MA's), (11, 109324), (14, 109249), (15, 109216),

Gene: Bobby_209 Start: 107283, Stop: 107014, Start Num: 3

Candidate Starts for Bobby_209:

(Start: 3 @107283 has 1 MA's), (6, 107277), (13, 107184), (14, 107151), (15, 107118),

Gene: Bombitas_214 Start: 105941, Stop: 105714, Start Num: 9

Candidate Starts for Bombitas_214:

(5, 105950), (Start: 9 @105941 has 27 MA's), (11, 105899), (13, 105857), (14, 105824), (15, 105791),

Gene: Constella_219 Start: 107056, Stop: 106805, Start Num: 9

Candidate Starts for Constella_219:

(Start: 9 @107056 has 27 MA's), (11, 107014), (13, 106972), (14, 106939), (15, 106906),

Gene: Courthouse_232 Start: 107346, Stop: 107095, Start Num: 9

Candidate Starts for Courthouse_232:

(Start: 9 @107346 has 27 MA's), (11, 107304), (13, 107262), (14, 107229), (15, 107196),

Gene: Dallas_227 Start: 107669, Stop: 107442, Start Num: 8

Candidate Starts for Dallas_227:

(1, 107729), (Start: 8 @107669 has 4 MA's), (Start: 9 @107663 has 27 MA's), (11, 107621), (14, 107546), (15, 107513), (16, 107459),

Gene: DmpstrDiver_229 Start: 107979, Stop: 107728, Start Num: 9

Candidate Starts for DmpstrDiver_229:

(Start: 9 @107979 has 27 MA's), (13, 107895), (14, 107862), (15, 107829),

Gene: EricMillard_226 Start: 109417, Stop: 109196, Start Num: 9

Candidate Starts for EricMillard_226:

(Start: 9 @109417 has 27 MA's), (10, 109396), (14, 109300), (15, 109267),

Gene: Gonephishing_224 Start: 106740, Stop: 106519, Start Num: 9

Candidate Starts for Gonephishing_224:

(Start: 9 @106740 has 27 MA's), (10, 106719), (11, 106698), (12, 106671), (13, 106656), (14, 106623), (15, 106590),

Gene: Halley_231 Start: 108150, Stop: 107929, Start Num: 9

Candidate Starts for Halley_231:

(1, 108216), (Start: 8 @108156 has 4 MA's), (Start: 9 @108150 has 27 MA's), (11, 108108), (14, 108033), (15, 108000), (16, 107946),

Gene: Hannaconda_218 Start: 107424, Stop: 107173, Start Num: 9

Candidate Starts for Hannaconda_218:

(Start: 9 @107424 has 27 MA's), (13, 107340), (14, 107307), (15, 107274),

Gene: HokkenD_220 Start: 109093, Stop: 108860, Start Num: 8

Candidate Starts for HokkenD_220:

(1, 109153), (Start: 8 @109093 has 4 MA's), (Start: 9 @109087 has 27 MA's), (11, 109045), (12, 109018), (13, 109003), (14, 108970), (15, 108937),

Gene: Hughesyang_230 Start: 109070, Stop: 108849, Start Num: 9

Candidate Starts for Hughesyang_230:

(Start: 9 @109070 has 27 MA's), (11, 109028), (14, 108953), (15, 108920),

Gene: JuicyJay_224 Start: 109321, Stop: 109088, Start Num: 8

Candidate Starts for JuicyJay_224:

(1, 109381), (Start: 8 @109321 has 4 MA's), (Start: 9 @109315 has 27 MA's), (11, 109273), (14, 109198), (15, 109165),

Gene: KashFlow_220 Start: 107318, Stop: 107067, Start Num: 9

Candidate Starts for KashFlow_220:

(Start: 9 @107318 has 27 MA's), (13, 107234), (14, 107201), (15, 107168),

Gene: Klein_235 Start: 108068, Stop: 107847, Start Num: 9

Candidate Starts for Klein_235:

(Start: 9 @108068 has 27 MA's), (10, 108047), (14, 107951), (15, 107918),

Gene: Lucky2013_225 Start: 104570, Stop: 104349, Start Num: 9

Candidate Starts for Lucky2013_225:

(Start: 9 @104570 has 27 MA's), (10, 104549), (14, 104453), (15, 104420),

Gene: MiaZeal_238 Start: 106709, Stop: 106488, Start Num: 9

Candidate Starts for MiaZeal_238:

(Start: 9 @106709 has 27 MA's), (10, 106688), (14, 106592), (15, 106559),

Gene: Minerva_227 Start: 106496, Stop: 106227, Start Num: 4

Candidate Starts for Minerva_227:

(Start: 4 @106496 has 2 MA's), (Start: 9 @106487 has 27 MA's), (11, 106445), (12, 106418), (13, 106403), (14, 106370), (15, 106337),

Gene: NihilNomen_230 Start: 107257, Stop: 106997, Start Num: 9

Candidate Starts for NihilNomen_230:

(Start: 9 @107257 has 27 MA's), (12, 107188), (13, 107173), (14, 107140), (15, 107107),

Gene: Odette_230 Start: 109016, Stop: 108750, Start Num: 2

Candidate Starts for Odette_230:

(2, 109016), (Start: 4 @108989 has 2 MA's), (7, 108983), (14, 108860), (15, 108827),

Gene: Omega_230 Start: 108604, Stop: 108353, Start Num: 9

Candidate Starts for Omega_230:

(Start: 4 @108613 has 2 MA's), (Start: 9 @108604 has 27 MA's), (13, 108520), (14, 108487), (15, 108454),

Gene: Optimus_224 Start: 107053, Stop: 106802, Start Num: 9

Candidate Starts for Optimus_224:

(Start: 4 @107062 has 2 MA's), (Start: 9 @107053 has 27 MA's), (11, 107011), (13, 106969), (14, 106936), (15, 106903),

Gene: Phoebus_227 Start: 110604, Stop: 110377, Start Num: 9

Candidate Starts for Phoebus_227:

(1, 110670), (Start: 8 @110610 has 4 MA's), (Start: 9 @110604 has 27 MA's), (11, 110562), (14, 110487), (15, 110454),

Gene: Porcelain_229 Start: 105517, Stop: 105296, Start Num: 9

Candidate Starts for Porcelain_229:

(Start: 9 @105517 has 27 MA's), (10, 105496), (14, 105400), (15, 105367),

Gene: Pound_217 Start: 106498, Stop: 106238, Start Num: 4

Candidate Starts for Pound_217:

(Start: 4 @106498 has 2 MA's), (Start: 9 @106489 has 27 MA's), (11, 106447), (12, 106420), (13, 106405), (14, 106372), (15, 106339),

Gene: Redno2_220 Start: 104658, Stop: 104437, Start Num: 9

Candidate Starts for Redno2_220:

(1, 104724), (Start: 8 @104664 has 4 MA's), (Start: 9 @104658 has 27 MA's), (11, 104616), (14, 104541), (15, 104508), (16, 104454),

Gene: Schatzie_220 Start: 107309, Stop: 107082, Start Num: 9

Candidate Starts for Schatzie_220:

(Start: 9 @107309 has 27 MA's), (12, 107240), (13, 107225), (14, 107192), (15, 107159),

Gene: Squint_226 Start: 106323, Stop: 106096, Start Num: 9

Candidate Starts for Squint_226:

(Start: 9 @106323 has 27 MA's), (14, 106206), (15, 106173),

Gene: Superphikiman_228 Start: 106142, Stop: 105915, Start Num: 9

Candidate Starts for Superphikiman_228:

(Start: 9 @106142 has 27 MA's), (11, 106100), (13, 106058), (14, 106025), (15, 105992),

Gene: Thibault_203 Start: 102835, Stop: 102584, Start Num: 9

Candidate Starts for Thibault_203:

(Start: 9 @102835 has 27 MA's), (11, 102793), (13, 102751), (14, 102718), (15, 102685),

Gene: ThreeRngTarjay_228 Start: 109728, Stop: 109477, Start Num: 9

Candidate Starts for ThreeRngTarjay_228:

(Start: 9 @109728 has 27 MA's), (11, 109686), (12, 109659), (13, 109644), (14, 109611), (15, 109578),

Gene: Wanda_227 Start: 105698, Stop: 105477, Start Num: 9

Candidate Starts for Wanda_227:

(Start: 9 @105698 has 27 MA's), (10, 105677), (14, 105581), (15, 105548),

Gene: Yeet_222 Start: 107409, Stop: 107182, Start Num: 9

Candidate Starts for Yeet_222:

(Start: 9 @107409 has 27 MA's), (13, 107325), (14, 107292), (15, 107259),

Gene: Zelink_221 Start: 106995, Stop: 106774, Start Num: 9

Candidate Starts for Zelink_221:

(Start: 9 @106995 has 27 MA's), (11, 106953), (12, 106926), (13, 106911), (14, 106878), (15, 106845),