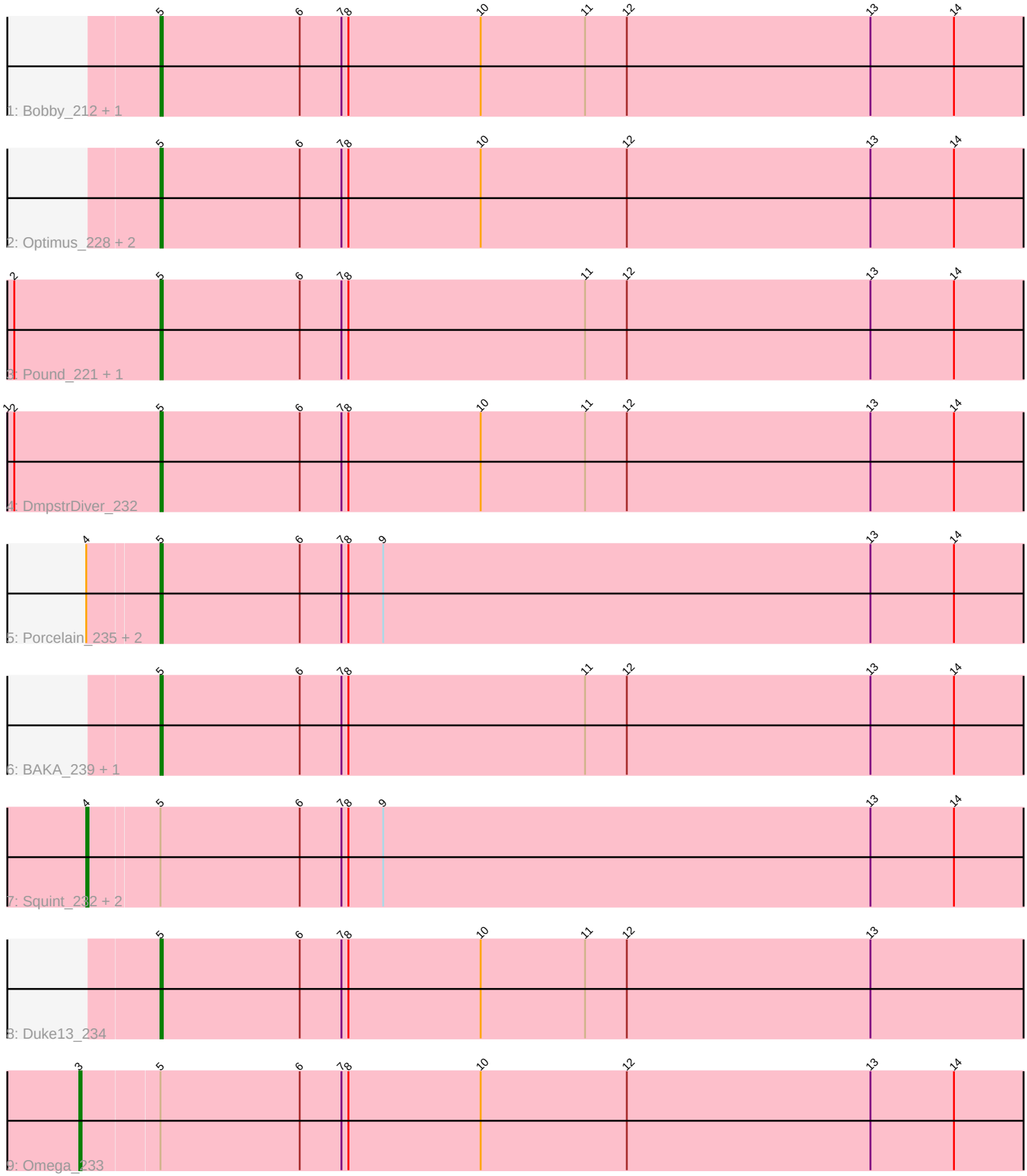
Pham 3948


1: Bobby_212 + 1
2: Optimus_228 + 2
3: Pound_221 + 1
4: DmpstrDiver_232
5: Porcelain_235 + 2
6: BAKA_239 + 1
7: Squint_232 + 2
8: Duke13_234
9: Omega_233

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 3948 Report

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

Pham number 3948 has 18 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Bobby_212, LittleE_222
• Track 2 : Optimus_228, Constella_223, Thibault_207
• Track 3 : Pound_221, Kalah2_222
• Track 4 : DmpstrDiver_232
• Track 5 : Porcelain_235, Lucky2013_231, Klein_241
• Track 6 : BAKA_239, NihilNomen_234
• Track 7 : Squint_232, MiaZeal_244, Wanda_233
• Track 8 : Duke13_234
• Track 9 : Omega_233

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 14 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BAKA_239, Bobby_212, Constella_223, DmpstrDiver_232, Duke13_234, Kalah2_222, Klein_241, LittleE_222, Lucky2013_231, NihilNomen_234, Optimus_228, Porcelain_235, Pound_221, Thibault_207,

Genes that have the "Most Annotated" start but do not call it:
• MiaZeal_244, Omega_233, Squint_232, Wanda_233,

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

Summary by start number:

Start 3:
• Found in 1 of 18 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Omega_233 (J),

Start 4:
• Found in 6 of 18 (33.3%) of genes in pham
• Manual Annotations of this start: 3 of 18
• Called 50.0% of time when present
• Phage (with cluster) where this start called: MiaZeal_244 (J), Squint_232 (J), Wanda_233 (J),

Start 5:
• Found in 18 of 18 (100.0%) of genes in pham
• Manual Annotations of this start: 14 of 18
• Called 77.8% of time when present
• Phage (with cluster) where this start called: BAKA_239 (J), Bobby_212 (J), Constella_223 (J), DmpstrDiver_232 (J), Duke13_234 (J), Kalah2_222 (J), Klein_241 (J), LittleE_222 (J), Lucky2013_231 (J), NihilNomen_234 (J), Optimus_228 (J), Porcelain_235 (J), Pound_221 (J), Thibault_207 (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 3 times for cluster J.
•Start number 5 was manually annotated 14 times for cluster J.

Gene Information:

Gene: BAKA_239 Start: 110086, Stop: 109712, Start Num: 5
Candidate Starts for BAKA_239:
(Start: 5 @110086 has 14 MA's), (6, 110026), (7, 110008), (8, 110005), (11, 109903), (12, 109885), (13, 109780), (14, 109744),

Gene: Bobby_212 Start: 108008, Stop: 107634, Start Num: 5
Candidate Starts for Bobby_212:
(Start: 5 @108008 has 14 MA's), (6, 107948), (7, 107930), (8, 107927), (10, 107870), (11, 107825), (12, 107807), (13, 107702), (14, 107666),

Gene: Constella_223 Start: 107953, Stop: 107579, Start Num: 5
Candidate Starts for Constella_223:
(Start: 5 @107953 has 14 MA's), (6, 107893), (7, 107875), (8, 107872), (10, 107815), (12, 107752), (13, 107647), (14, 107611),

Gene: DmpstrDiver_232 Start: 108842, Stop: 108468, Start Num: 5
Candidate Starts for DmpstrDiver_232:
(1, 108908), (2, 108905), (Start: 5 @108842 has 14 MA's), (6, 108782), (7, 108764), (8, 108761), (10, 108704), (11, 108659), (12, 108641), (13, 108536), (14, 108500),

Gene: Duke13_234 Start: 109650, Stop: 109276, Start Num: 5
Candidate Starts for Duke13_234:
(Start: 5 @109650 has 14 MA's), (6, 109590), (7, 109572), (8, 109569), (10, 109512), (11, 109467), (12, 109449), (13, 109344),

Gene: Kalah2_222 Start: 108197, Stop: 107823, Start Num: 5
Candidate Starts for Kalah2_222:
(2, 108260), (Start: 5 @108197 has 14 MA's), (6, 108137), (7, 108119), (8, 108116), (11, 108014), (12, 107996), (13, 107891), (14, 107855),

Gene: Klein_241 Start: 109564, Stop: 109190, Start Num: 5
Candidate Starts for Klein_241:
(Start: 4 @109594 has 3 MA's), (Start: 5 @109564 has 14 MA's), (6, 109504), (7, 109486), (8, 109483), (9, 109468), (13, 109258), (14, 109222),

Gene: LittleE_222 Start: 106417, Stop: 106043, Start Num: 5
Candidate Starts for LittleE_222:
(Start: 5 @106417 has 14 MA's), (6, 106357), (7, 106339), (8, 106336), (10, 106279), (11, 106234), (12, 106216), (13, 106111), (14, 106075),

Gene: Lucky2013_231 Start: 106066, Stop: 105692, Start Num: 5
Candidate Starts for Lucky2013_231:
(Start: 4 @106096 has 3 MA's), (Start: 5 @106066 has 14 MA's), (6, 106006), (7, 105988), (8, 105985), (9, 105970), (13, 105760), (14, 105724),

Gene: MiaZeal_244 Start: 108233, Stop: 107829, Start Num: 4
Candidate Starts for MiaZeal_244:
(Start: 4 @108233 has 3 MA's), (Start: 5 @108203 has 14 MA's), (6, 108143), (7, 108125), (8, 108122), (9, 108107), (13, 107897), (14, 107861),

Gene: NihilNomen_234 Start: 108152, Stop: 107778, Start Num: 5
Candidate Starts for NihilNomen_234:
(Start: 5 @108152 has 14 MA's), (6, 108092), (7, 108074), (8, 108071), (11, 107969), (12, 107951), (13, 107846), (14, 107810),

Gene: Omega_233 Start: 109516, Stop: 109109, Start Num: 3
Candidate Starts for Omega_233:
(Start: 3 @109516 has 1 MA's), (Start: 5 @109483 has 14 MA's), (6, 109423), (7, 109405), (8, 109402), (10, 109345), (12, 109282), (13, 109177), (14, 109141),

Gene: Optimus_228 Start: 108004, Stop: 107630, Start Num: 5
Candidate Starts for Optimus_228:
(Start: 5 @108004 has 14 MA's), (6, 107944), (7, 107926), (8, 107923), (10, 107866), (12, 107803), (13, 107698), (14, 107662),

Gene: Porcelain_235 Start: 107013, Stop: 106639, Start Num: 5
Candidate Starts for Porcelain_235:
(Start: 4 @107043 has 3 MA's), (Start: 5 @107013 has 14 MA's), (6, 106953), (7, 106935), (8, 106932), (9, 106917), (13, 106707), (14, 106671),

Gene: Pound_221 Start: 107439, Stop: 107065, Start Num: 5
Candidate Starts for Pound_221:
(2, 107502), (Start: 5 @107439 has 14 MA's), (6, 107379), (7, 107361), (8, 107358), (11, 107256), (12, 107238), (13, 107133), (14, 107097),

Gene: Squint_232 Start: 107849, Stop: 107445, Start Num: 4
Candidate Starts for Squint_232:

(Start: 4 @107849 has 3 MA's), (Start: 5 @107819 has 14 MA's), (6, 107759), (7, 107741), (8, 107738), (9, 107723), (13, 107513), (14, 107477),

Gene: Thibault_207 Start: 103732, Stop: 103358, Start Num: 5
Candidate Starts for Thibault_207:
(Start: 5 @103732 has 14 MA's), (6, 103672), (7, 103654), (8, 103651), (10, 103594), (12, 103531), (13, 103426), (14, 103390),

Gene: Wanda_233 Start: 107224, Stop: 106820, Start Num: 4
Candidate Starts for Wanda_233:
(Start: 4 @107224 has 3 MA's), (Start: 5 @107194 has 14 MA's), (6, 107134), (7, 107116), (8, 107113), (9, 107098), (13, 106888), (14, 106852),