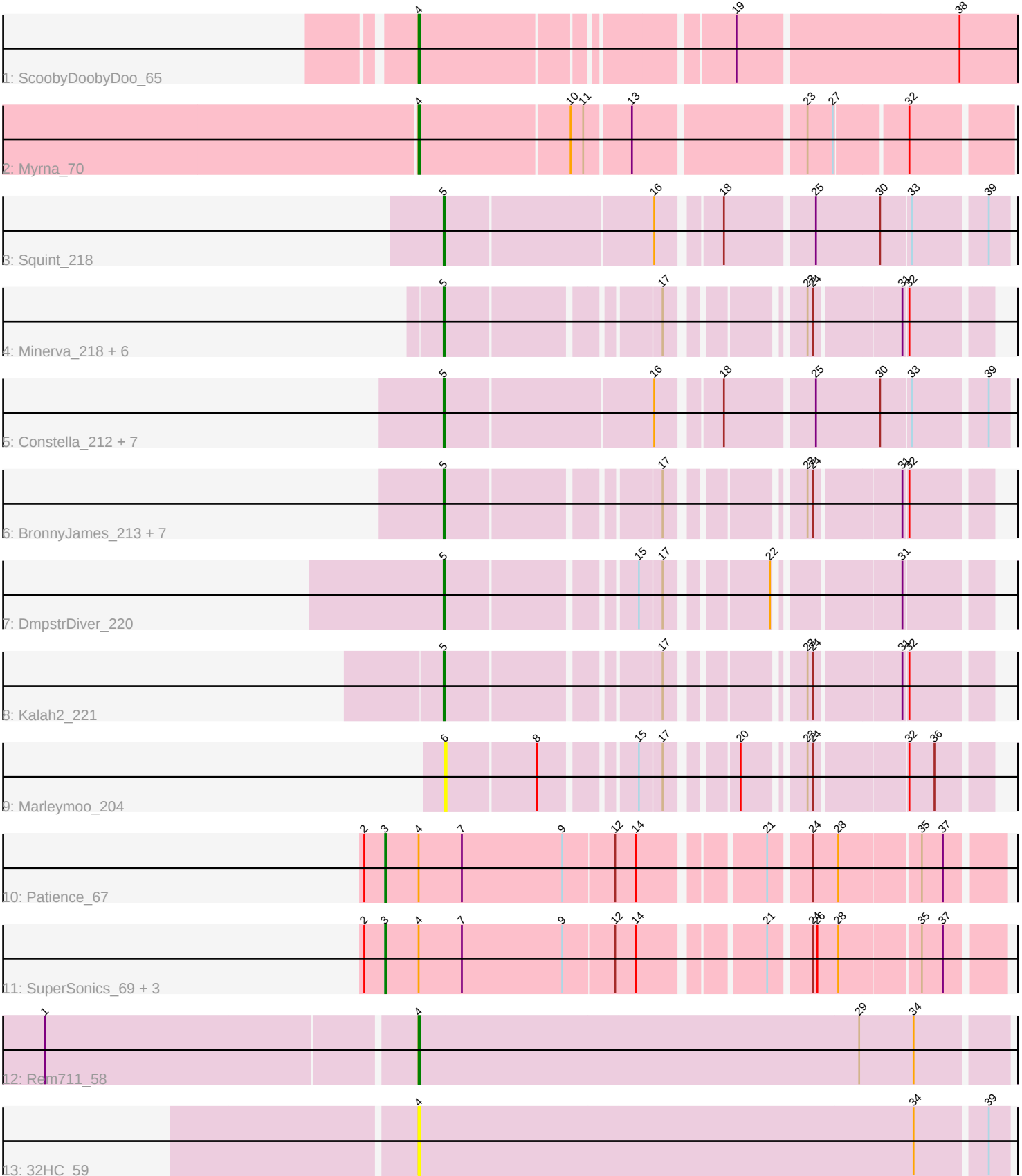


Pham 331047



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 331047 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331047 has 36 members, 10 are drafts.

Phages represented in each track:

- Track 1 : ScoobyDoobyDoo_65
- Track 2 : Myrna_70
- Track 3 : Squint_218
- Track 4 : Minerva_218, Odette_222, Duke13_223, KashFlow_213, Pound_210, Hannaconda_212, Schatzie_212
- Track 5 : Constella_212, Dallas_220, Bobby_201, Hidrated_206, Wanda_219, BAKA_227, Xiaokay_209, Klein_227
- Track 6 : BronnyJames_213, MiaZeal_228, Porcelain_219, Lucky2013_216, Nibley_211, Nekros_222, Shaboozey_219, ThreeRngTarjay_220
- Track 7 : DmpstrDiver_220
- Track 8 : Kalah2_221
- Track 9 : Marleymoo_204
- Track 10 : Patience_67
- Track 11 : SuperSonics_69, Labelle_66, Madruga_65, Demikore_68
- Track 12 : Rem711_58
- Track 13 : 32HC_59

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 20 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BAKA_227, Bobby_201, BronnyJames_213, Constella_212, Dallas_220, DmpstrDiver_220, Duke13_223, Hannaconda_212, Hidrated_206, Kalah2_221, KashFlow_213, Klein_227, Lucky2013_216, MiaZeal_228, Minerva_218, Nekros_222, Nibley_211, Odette_222, Porcelain_219, Pound_210, Schatzie_212, Shaboozey_219, Squint_218, ThreeRngTarjay_220, Wanda_219, Xiaokay_209,

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

-

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

- 32HC_59, Demikore_68, Labelle_66, Madruga_65, Marleymoo_204, Myrna_70, Patience_67, Rem711_58, ScoobyDoobyDoo_65, SuperSonics_69,

Summary by start number:

Start 3:

- Found in 5 of 36 (13.9%) of genes in pham
- Manual Annotations of this start: 3 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Demikore_68 (U), Labelle_66 (U), Madruga_65 (U), Patience_67 (U), SuperSonics_69 (U),

Start 4:

- Found in 9 of 36 (25.0%) of genes in pham
- Manual Annotations of this start: 3 of 26
- Called 44.4% of time when present
- Phage (with cluster) where this start called: 32HC_59 (Z), Myrna_70 (C2), Rem711_58 (Z), ScoobyDoobyDoo_65 (C2),

Start 5:

- Found in 26 of 36 (72.2%) of genes in pham
- Manual Annotations of this start: 20 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAKA_227 (J), Bobby_201 (J), BronnyJames_213 (J), Constella_212 (J), Dallas_220 (J), DmpstrDiver_220 (J), Duke13_223 (J), Hannaconda_212 (J), Hidrated_206 (J), Kalah2_221 (J), KashFlow_213 (J), Klein_227 (J), Lucky2013_216 (J), MiaZeal_228 (J), Minerva_218 (J), Nekros_222 (J), Nibley_211 (J), Odette_222 (J), Porcelain_219 (J), Pound_210 (J), Schatzie_212 (J), Shaboozey_219 (J), Squint_218 (J), ThreeRngTarjay_220 (J), Wanda_219 (J), Xiaokay_209 (J),

Start 6:

- Found in 1 of 36 (2.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Marleymoo_204 (J),

Summary by clusters:

There are 4 clusters represented in this pham: C2, Z, J, U,

Info for manual annotations of cluster C2:

- Start number 4 was manually annotated 2 times for cluster C2.

Info for manual annotations of cluster J:

- Start number 5 was manually annotated 20 times for cluster J.

Info for manual annotations of cluster U:

- Start number 3 was manually annotated 3 times for cluster U.

Info for manual annotations of cluster Z:

- Start number 4 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_59 Start: 39773, Stop: 40186, Start Num: 4

Candidate Starts for 32HC_59:

(Start: 4 @39773 has 3 MA's), (34, 40124), (39, 40172),

Gene: BAKA_227 Start: 107551, Stop: 107183, Start Num: 5

Candidate Starts for BAKA_227:

(Start: 5 @107551 has 20 MA's), (16, 107410), (18, 107371), (25, 107311), (30, 107266), (33, 107245), (39, 107197),

Gene: Bobby_201 Start: 105035, Stop: 104667, Start Num: 5

Candidate Starts for Bobby_201:

(Start: 5 @105035 has 20 MA's), (16, 104894), (18, 104855), (25, 104795), (30, 104750), (33, 104729), (39, 104681),

Gene: BronnyJames_213 Start: 102094, Stop: 101768, Start Num: 5

Candidate Starts for BronnyJames_213:

(Start: 5 @102094 has 20 MA's), (17, 101959), (23, 101884), (24, 101881), (31, 101824), (32, 101821),

Gene: Constella_212 Start: 105263, Stop: 104895, Start Num: 5

Candidate Starts for Constella_212:

(Start: 5 @105263 has 20 MA's), (16, 105122), (18, 105083), (25, 105023), (30, 104978), (33, 104957), (39, 104909),

Gene: Dallas_220 Start: 105872, Stop: 105504, Start Num: 5

Candidate Starts for Dallas_220:

(Start: 5 @105872 has 20 MA's), (16, 105731), (18, 105692), (25, 105632), (30, 105587), (33, 105566), (39, 105518),

Gene: Demikore_68 Start: 45863, Stop: 46270, Start Num: 3

Candidate Starts for Demikore_68:

(2, 45848), (Start: 3 @45863 has 3 MA's), (Start: 4 @45887 has 3 MA's), (7, 45917), (9, 45989), (12, 46025), (14, 46040), (21, 46118), (24, 46145), (26, 46148), (28, 46163), (35, 46217), (37, 46232),

Gene: DmpstrDiver_220 Start: 105699, Stop: 105373, Start Num: 5

Candidate Starts for DmpstrDiver_220:

(Start: 5 @105699 has 20 MA's), (15, 105579), (17, 105564), (22, 105504), (31, 105429),

Gene: Duke13_223 Start: 106493, Stop: 106167, Start Num: 5

Candidate Starts for Duke13_223:

(Start: 5 @106493 has 20 MA's), (17, 106358), (23, 106283), (24, 106280), (31, 106223), (32, 106220),

Gene: Hannaconda_212 Start: 105480, Stop: 105154, Start Num: 5

Candidate Starts for Hannaconda_212:

(Start: 5 @105480 has 20 MA's), (17, 105345), (23, 105270), (24, 105267), (31, 105210), (32, 105207),

Gene: Hidrated_206 Start: 106770, Stop: 106402, Start Num: 5

Candidate Starts for Hidrated_206:

(Start: 5 @106770 has 20 MA's), (16, 106629), (18, 106590), (25, 106530), (30, 106485), (33, 106464), (39, 106416),

Gene: Kalah2_221 Start: 107782, Stop: 107456, Start Num: 5

Candidate Starts for Kalah2_221:

(Start: 5 @107782 has 20 MA's), (17, 107647), (23, 107572), (24, 107569), (31, 107512), (32, 107509),

Gene: KashFlow_213 Start: 105374, Stop: 105048, Start Num: 5

Candidate Starts for KashFlow_213:

(Start: 5 @105374 has 20 MA's), (17, 105239), (23, 105164), (24, 105161), (31, 105104), (32, 105101),

Gene: Klein_227 Start: 106257, Stop: 105889, Start Num: 5

Candidate Starts for Klein_227:

(Start: 5 @106257 has 20 MA's), (16, 106116), (18, 106077), (25, 106017), (30, 105972), (33, 105951), (39, 105903),

Gene: Labelle_66 Start: 45684, Stop: 46091, Start Num: 3

Candidate Starts for Labelle_66:

(2, 45669), (Start: 3 @45684 has 3 MA's), (Start: 4 @45708 has 3 MA's), (7, 45738), (9, 45810), (12, 45846), (14, 45861), (21, 45939), (24, 45966), (26, 45969), (28, 45984), (35, 46038), (37, 46053),

Gene: Lucky2013_216 Start: 102433, Stop: 102107, Start Num: 5

Candidate Starts for Lucky2013_216:

(Start: 5 @102433 has 20 MA's), (17, 102298), (23, 102223), (24, 102220), (31, 102163), (32, 102160),

Gene: Madruga_65 Start: 45333, Stop: 45740, Start Num: 3

Candidate Starts for Madruga_65:

(2, 45318), (Start: 3 @45333 has 3 MA's), (Start: 4 @45357 has 3 MA's), (7, 45387), (9, 45459), (12, 45495), (14, 45510), (21, 45588), (24, 45615), (26, 45618), (28, 45633), (35, 45687), (37, 45702),

Gene: Marleymoo_204 Start: 103967, Stop: 103641, Start Num: 6

Candidate Starts for Marleymoo_204:

(6, 103967), (8, 103904), (15, 103847), (17, 103832), (20, 103793), (23, 103757), (24, 103754), (32, 103694), (36, 103676),

Gene: MiaZeal_228 Start: 104572, Stop: 104246, Start Num: 5

Candidate Starts for MiaZeal_228:

(Start: 5 @104572 has 20 MA's), (17, 104437), (23, 104362), (24, 104359), (31, 104302), (32, 104299),

Gene: Minerva_218 Start: 104286, Stop: 103960, Start Num: 5

Candidate Starts for Minerva_218:

(Start: 5 @104286 has 20 MA's), (17, 104151), (23, 104076), (24, 104073), (31, 104016), (32, 104013),

Gene: Myrna_70 Start: 27881, Stop: 28273, Start Num: 4

Candidate Starts for Myrna_70:

(Start: 4 @27881 has 3 MA's), (10, 27986), (11, 27995), (13, 28025), (23, 28139), (27, 28157), (32, 28205),

Gene: Nekros_222 Start: 106378, Stop: 106052, Start Num: 5

Candidate Starts for Nekros_222:

(Start: 5 @106378 has 20 MA's), (17, 106243), (23, 106168), (24, 106165), (31, 106108), (32, 106105),

Gene: Nibley_211 Start: 101671, Stop: 101345, Start Num: 5

Candidate Starts for Nibley_211:

(Start: 5 @101671 has 20 MA's), (17, 101536), (23, 101461), (24, 101458), (31, 101401), (32, 101398),

Gene: Odette_222 Start: 107131, Stop: 106805, Start Num: 5

Candidate Starts for Odette_222:

(Start: 5 @107131 has 20 MA's), (17, 106996), (23, 106921), (24, 106918), (31, 106861), (32, 106858),

Gene: Patience_67 Start: 46228, Stop: 46635, Start Num: 3

Candidate Starts for Patience_67:

(2, 46213), (Start: 3 @46228 has 3 MA's), (Start: 4 @46252 has 3 MA's), (7, 46282), (9, 46354), (12, 46390), (14, 46405), (21, 46483), (24, 46510), (28, 46528), (35, 46582), (37, 46597),

Gene: Porcelain_219 Start: 103380, Stop: 103054, Start Num: 5

Candidate Starts for Porcelain_219:

(Start: 5 @103380 has 20 MA's), (17, 103245), (23, 103170), (24, 103167), (31, 103110), (32, 103107),

Gene: Pound_210 Start: 104474, Stop: 104148, Start Num: 5

Candidate Starts for Pound_210:

(Start: 5 @104474 has 20 MA's), (17, 104339), (23, 104264), (24, 104261), (31, 104204), (32, 104201),

Gene: Rem711_58 Start: 39764, Stop: 40177, Start Num: 4

Candidate Starts for Rem711_58:

(1, 39506), (Start: 4 @39764 has 3 MA's), (29, 40076), (34, 40115),

Gene: Schatzie_212 Start: 105010, Stop: 104684, Start Num: 5

Candidate Starts for Schatzie_212:

(Start: 5 @105010 has 20 MA's), (17, 104875), (23, 104800), (24, 104797), (31, 104740), (32, 104737),

Gene: ScoobyDoobyDoo_65 Start: 23926, Stop: 24321, Start Num: 4

Candidate Starts for ScoobyDoobyDoo_65:

(Start: 4 @23926 has 3 MA's), (19, 24127), (38, 24280),

Gene: Shaboozey_219 Start: 102942, Stop: 102616, Start Num: 5

Candidate Starts for Shaboozey_219:

(Start: 5 @102942 has 20 MA's), (17, 102807), (23, 102732), (24, 102729), (31, 102672), (32, 102669),

Gene: Squint_218 Start: 103983, Stop: 103615, Start Num: 5

Candidate Starts for Squint_218:

(Start: 5 @103983 has 20 MA's), (16, 103842), (18, 103803), (25, 103743), (30, 103698), (33, 103677), (39, 103629),

Gene: SuperSonics_69 Start: 45576, Stop: 45983, Start Num: 3

Candidate Starts for SuperSonics_69:

(2, 45561), (Start: 3 @45576 has 3 MA's), (Start: 4 @45600 has 3 MA's), (7, 45630), (9, 45702), (12, 45738), (14, 45753), (21, 45831), (24, 45858), (26, 45861), (28, 45876), (35, 45930), (37, 45945),

Gene: ThreeRngTarjay_220 Start: 107485, Stop: 107159, Start Num: 5

Candidate Starts for ThreeRngTarjay_220:

(Start: 5 @107485 has 20 MA's), (17, 107350), (23, 107275), (24, 107272), (31, 107215), (32, 107212),

Gene: Wanda_219 Start: 103887, Stop: 103519, Start Num: 5

Candidate Starts for Wanda_219:

(Start: 5 @103887 has 20 MA's), (16, 103746), (18, 103707), (25, 103647), (30, 103602), (33, 103581), (39, 103533),

Gene: Xiaokay_209 Start: 105364, Stop: 104996, Start Num: 5

Candidate Starts for Xiaokay_209:

(Start: 5 @105364 has 20 MA's), (16, 105223), (18, 105184), (25, 105124), (30, 105079), (33, 105058),
(39, 105010),