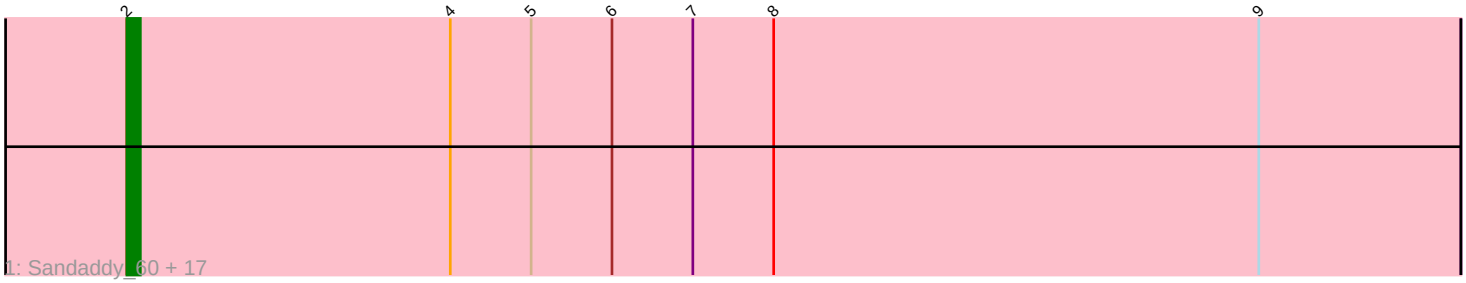
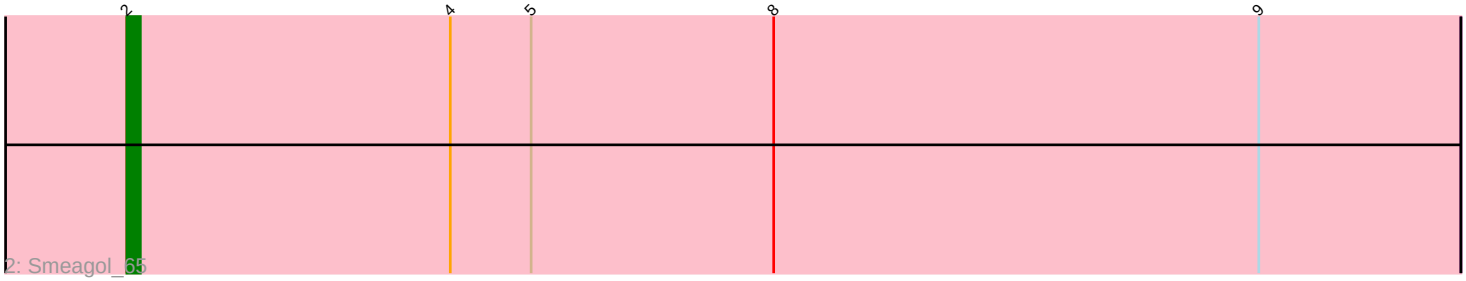
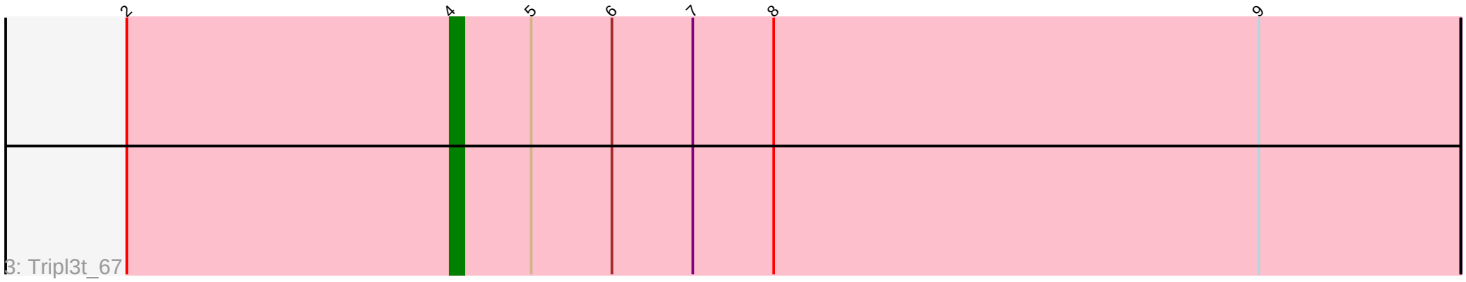
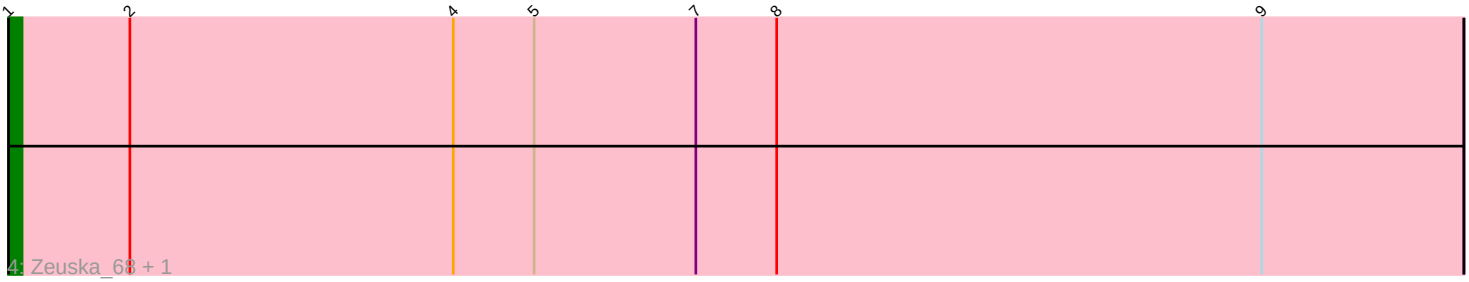
Pham 338414


2
4
5
6
7
8
9
1: Sandaddy_60 + 17


2
4
5
8
9
2: Smeagol_65


2
4
5
6
7
8
9
3: Tripl3t_67


1
2
4
5
7
8
9
4: Zeuska_68 + 1


2
3
4
5
5: LittleE_130 + 13

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 338414 Report

This analysis was run 11/14/26 on database version 672.

Pham number 338414 has 36 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Sandaddy_60, Teodoridan_61, Magnito_62, DrFeelGood_60, Makemake_67, Ohno789_63, Lesedi_59, Fenn_65, Wheeler_65, Mryolo_60, KyMonks1A_67, Ruotula_66, PherrisBueller_62, BeesKnees_65, Lopton_63, Michley_66, Sorpresa_61, Magnar_62
• Track 2 : Smeagol_65
• Track 3 : Tripl3t_67
• Track 4 : Zeuska_68, JackSparrow_66
• Track 5 : LittleE_130, MiaZeal_126, Nibley_123, Nekros_129, Hannaconda_118, KashFlow_123, Omega_137, Porcelain_125, Lucky2013_122, Rearden_124, Gonephishing_120, Shaboozey_127, BronnyJames_123, Squint_124

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 25 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BeesKnees_65, BronnyJames_123, DrFeelGood_60, Fenn_65, Gonephishing_120, Hannaconda_118, KashFlow_123, KyMonks1A_67, Lesedi_59, LittleE_130, Lopton_63, Lucky2013_122, Magnar_62, Magnito_62, Makemake_67, MiaZeal_126, Michley_66, Mryolo_60, Nekros_129, Nibley_123, Ohno789_63, Omega_137, PherrisBueller_62, Porcelain_125, Rearden_124, Ruotula_66, Sandaddy_60, Shaboozey_127, Smeagol_65, Sorpresa_61, Squint_124, Teodoridan_61, Wheeler_65,

Genes that have the "Most Annotated" start but do not call it:
• JackSparrow_66, Tripl3t_67, Zeuska_68,

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

Summary by start number:

Start 1:

• Found in 2 of 36 (5.6%) of genes in pham
• Manual Annotations of this start: 2 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JackSparrow_66 (A1), Zeuska_68 (A1),

Start 2:
• Found in 36 of 36 (100.0%) of genes in pham
• Manual Annotations of this start: 25 of 28
• Called 91.7% of time when present
• Phage (with cluster) where this start called: BeesKnees_65 (A1), BronnyJames_123 (J), DrFeelGood_60 (A1), Fenn_65 (A1), Gonephishing_120 (J), Hannaconda_118 (J), KashFlow_123 (J), KyMonks1A_67 (A1), Lesedi_59 (A1), LittleE_130 (J), Lopton_63 (A1), Lucky2013_122 (J), Magnar_62 (A1), Magnito_62 (A1), Makemake_67 (A1), MiaZeal_126 (J), Michley_66 (A1), Mryolo_60 (A1), Nekros_129 (J), Nibley_123 (J), Ohno789_63 (A1), Omega_137 (J), PherrisBueller_62 (A1), Porcelain_125 (J), Rearden_124 (J), Ruotula_66 (A1), Sandaddy_60 (A1), Shaboozey_127 (J), Smeagol_65 (A1), Sorpresa_61 (A1), Squint_124 (J), Teodoridan_61 (A1), Wheeler_65 (A1),

Start 4:
• Found in 36 of 36 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 2.8% of time when present
• Phage (with cluster) where this start called: Tripl3t_67 (A1),

Summary by clusters:

There are 2 clusters represented in this pham: A1, J,

Info for manual annotations of cluster A1:
•Start number 1 was manually annotated 2 times for cluster A1.
•Start number 2 was manually annotated 17 times for cluster A1.
•Start number 4 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster J:
•Start number 2 was manually annotated 8 times for cluster J.

Gene Information:

Gene: BeesKnees_65 Start: 40770, Stop: 40672, Start Num: 2
Candidate Starts for BeesKnees_65:
(Start: 2 @40770 has 25 MA's), (Start: 4 @40746 has 1 MA's), (5, 40740), (6, 40734), (7, 40728), (8, 40722), (9, 40686),

Gene: BronnyJames_123 Start: 68185, Stop: 68283, Start Num: 2
Candidate Starts for BronnyJames_123:
(Start: 2 @68185 has 25 MA's), (3, 68200), (Start: 4 @68209 has 1 MA's), (5, 68215),

Gene: DrFeelGood_60 Start: 40429, Stop: 40331, Start Num: 2
Candidate Starts for DrFeelGood_60:

(Start: 2 @40429 has 25 MA's), (Start: 4 @40405 has 1 MA's), (5, 40399), (6, 40393), (7, 40387), (8, 40381), (9, 40345),

Gene: Fenn_65 Start: 42758, Stop: 42660, Start Num: 2
Candidate Starts for Fenn_65:
(Start: 2 @42758 has 25 MA's), (Start: 4 @42734 has 1 MA's), (5, 42728), (6, 42722), (7, 42716), (8, 42710), (9, 42674),

Gene: Gonephishing_120 Start: 66224, Stop: 66322, Start Num: 2
Candidate Starts for Gonephishing_120:
(Start: 2 @66224 has 25 MA's), (3, 66239), (Start: 4 @66248 has 1 MA's), (5, 66254),

Gene: Hannaconda_118 Start: 66877, Stop: 66975, Start Num: 2
Candidate Starts for Hannaconda_118:
(Start: 2 @66877 has 25 MA's), (3, 66892), (Start: 4 @66901 has 1 MA's), (5, 66907),

Gene: JackSparrow_66 Start: 41676, Stop: 41569, Start Num: 1
Candidate Starts for JackSparrow_66:
(Start: 1 @41676 has 2 MA's), (Start: 2 @41667 has 25 MA's), (Start: 4 @41643 has 1 MA's), (5, 41637), (7, 41625), (8, 41619), (9, 41583),

Gene: KashFlow_123 Start: 68659, Stop: 68757, Start Num: 2
Candidate Starts for KashFlow_123:
(Start: 2 @68659 has 25 MA's), (3, 68674), (Start: 4 @68683 has 1 MA's), (5, 68689),

Gene: KyMonks1A_67 Start: 41553, Stop: 41455, Start Num: 2
Candidate Starts for KyMonks1A_67:
(Start: 2 @41553 has 25 MA's), (Start: 4 @41529 has 1 MA's), (5, 41523), (6, 41517), (7, 41511), (8, 41505), (9, 41469),

Gene: Lesedi_59 Start: 39620, Stop: 39522, Start Num: 2
Candidate Starts for Lesedi_59:
(Start: 2 @39620 has 25 MA's), (Start: 4 @39596 has 1 MA's), (5, 39590), (6, 39584), (7, 39578), (8, 39572), (9, 39536),

Gene: LittleE_130 Start: 70410, Stop: 70508, Start Num: 2
Candidate Starts for LittleE_130:
(Start: 2 @70410 has 25 MA's), (3, 70425), (Start: 4 @70434 has 1 MA's), (5, 70440),

Gene: Lopton_63 Start: 43207, Stop: 43109, Start Num: 2
Candidate Starts for Lopton_63:
(Start: 2 @43207 has 25 MA's), (Start: 4 @43183 has 1 MA's), (5, 43177), (6, 43171), (7, 43165), (8, 43159), (9, 43123),

Gene: Lucky2013_122 Start: 67287, Stop: 67385, Start Num: 2
Candidate Starts for Lucky2013_122:
(Start: 2 @67287 has 25 MA's), (3, 67302), (Start: 4 @67311 has 1 MA's), (5, 67317),

Gene: Magnar_62 Start: 41426, Stop: 41328, Start Num: 2
Candidate Starts for Magnar_62:
(Start: 2 @41426 has 25 MA's), (Start: 4 @41402 has 1 MA's), (5, 41396), (6, 41390), (7, 41384), (8, 41378), (9, 41342),

Gene: Magnito_62 Start: 41290, Stop: 41192, Start Num: 2
Candidate Starts for Magnito_62:
(Start: 2 @41290 has 25 MA's), (Start: 4 @41266 has 1 MA's), (5, 41260), (6, 41254), (7, 41248), (8, 41242), (9, 41206),

Gene: Makemake_67 Start: 43197, Stop: 43099, Start Num: 2
Candidate Starts for Makemake_67:
(Start: 2 @43197 has 25 MA's), (Start: 4 @43173 has 1 MA's), (5, 43167), (6, 43161), (7, 43155), (8, 43149), (9, 43113),

Gene: MiaZeal_126 Start: 67883, Stop: 67981, Start Num: 2
Candidate Starts for MiaZeal_126:
(Start: 2 @67883 has 25 MA's), (3, 67898), (Start: 4 @67907 has 1 MA's), (5, 67913),

Gene: Michley_66 Start: 41874, Stop: 41776, Start Num: 2
Candidate Starts for Michley_66:
(Start: 2 @41874 has 25 MA's), (Start: 4 @41850 has 1 MA's), (5, 41844), (6, 41838), (7, 41832), (8, 41826), (9, 41790),

Gene: Mryolo_60 Start: 40835, Stop: 40737, Start Num: 2
Candidate Starts for Mryolo_60:
(Start: 2 @40835 has 25 MA's), (Start: 4 @40811 has 1 MA's), (5, 40805), (6, 40799), (7, 40793), (8, 40787), (9, 40751),

Gene: Nekros_129 Start: 71379, Stop: 71477, Start Num: 2
Candidate Starts for Nekros_129:
(Start: 2 @71379 has 25 MA's), (3, 71394), (Start: 4 @71403 has 1 MA's), (5, 71409),

Gene: Nibley_123 Start: 67762, Stop: 67860, Start Num: 2
Candidate Starts for Nibley_123:
(Start: 2 @67762 has 25 MA's), (3, 67777), (Start: 4 @67786 has 1 MA's), (5, 67792),

Gene: Ohno789_63 Start: 41896, Stop: 41798, Start Num: 2
Candidate Starts for Ohno789_63:
(Start: 2 @41896 has 25 MA's), (Start: 4 @41872 has 1 MA's), (5, 41866), (6, 41860), (7, 41854), (8, 41848), (9, 41812),

Gene: Omega_137 Start: 72091, Stop: 72189, Start Num: 2
Candidate Starts for Omega_137:
(Start: 2 @72091 has 25 MA's), (3, 72106), (Start: 4 @72115 has 1 MA's), (5, 72121),

Gene: PherrisBueller_62 Start: 39970, Stop: 39872, Start Num: 2
Candidate Starts for PherrisBueller_62:
(Start: 2 @39970 has 25 MA's), (Start: 4 @39946 has 1 MA's), (5, 39940), (6, 39934), (7, 39928), (8, 39922), (9, 39886),

Gene: Porcelain_125 Start: 68233, Stop: 68331, Start Num: 2
Candidate Starts for Porcelain_125:
(Start: 2 @68233 has 25 MA's), (3, 68248), (Start: 4 @68257 has 1 MA's), (5, 68263),

Gene: Rearden_124 Start: 67782, Stop: 67880, Start Num: 2
Candidate Starts for Rearden_124:
(Start: 2 @67782 has 25 MA's), (3, 67797), (Start: 4 @67806 has 1 MA's), (5, 67812),

Gene: Ruotula_66 Start: 43347, Stop: 43249, Start Num: 2
Candidate Starts for Ruotula_66:
(Start: 2 @43347 has 25 MA's), (Start: 4 @43323 has 1 MA's), (5, 43317), (6, 43311), (7, 43305), (8, 43299), (9, 43263),

Gene: Sandaddy_60 Start: 41094, Stop: 40996, Start Num: 2
Candidate Starts for Sandaddy_60:
(Start: 2 @41094 has 25 MA's), (Start: 4 @41070 has 1 MA's), (5, 41064), (6, 41058), (7, 41052), (8, 41046), (9, 41010),

Gene: Shaboozey_127 Start: 68206, Stop: 68304, Start Num: 2
Candidate Starts for Shaboozey_127:
(Start: 2 @68206 has 25 MA's), (3, 68221), (Start: 4 @68230 has 1 MA's), (5, 68236),

Gene: Smeagol_65 Start: 43120, Stop: 43022, Start Num: 2
Candidate Starts for Smeagol_65:
(Start: 2 @43120 has 25 MA's), (Start: 4 @43096 has 1 MA's), (5, 43090), (8, 43072), (9, 43036),

Gene: Sorpresa_61 Start: 41096, Stop: 40998, Start Num: 2
Candidate Starts for Sorpresa_61:
(Start: 2 @41096 has 25 MA's), (Start: 4 @41072 has 1 MA's), (5, 41066), (6, 41060), (7, 41054), (8, 41048), (9, 41012),

Gene: Squint_124 Start: 67996, Stop: 68094, Start Num: 2
Candidate Starts for Squint_124:
(Start: 2 @67996 has 25 MA's), (3, 68011), (Start: 4 @68020 has 1 MA's), (5, 68026),

Gene: Teodoridan_61 Start: 40400, Stop: 40302, Start Num: 2
Candidate Starts for Teodoridan_61:
(Start: 2 @40400 has 25 MA's), (Start: 4 @40376 has 1 MA's), (5, 40370), (6, 40364), (7, 40358), (8, 40352), (9, 40316),

Gene: Tripl3t_67 Start: 44022, Stop: 43948, Start Num: 4
Candidate Starts for Tripl3t_67:
(Start: 2 @44046 has 25 MA's), (Start: 4 @44022 has 1 MA's), (5, 44016), (6, 44010), (7, 44004), (8, 43998), (9, 43962),

Gene: Wheeler_65 Start: 41924, Stop: 41826, Start Num: 2
Candidate Starts for Wheeler_65:
(Start: 2 @41924 has 25 MA's), (Start: 4 @41900 has 1 MA's), (5, 41894), (6, 41888), (7, 41882), (8, 41876), (9, 41840),

Gene: Zeuska_68 Start: 44158, Stop: 44051, Start Num: 1
Candidate Starts for Zeuska_68:
(Start: 1 @44158 has 2 MA's), (Start: 2 @44149 has 25 MA's), (Start: 4 @44125 has 1 MA's), (5, 44119), (7, 44107), (8, 44101), (9, 44065),