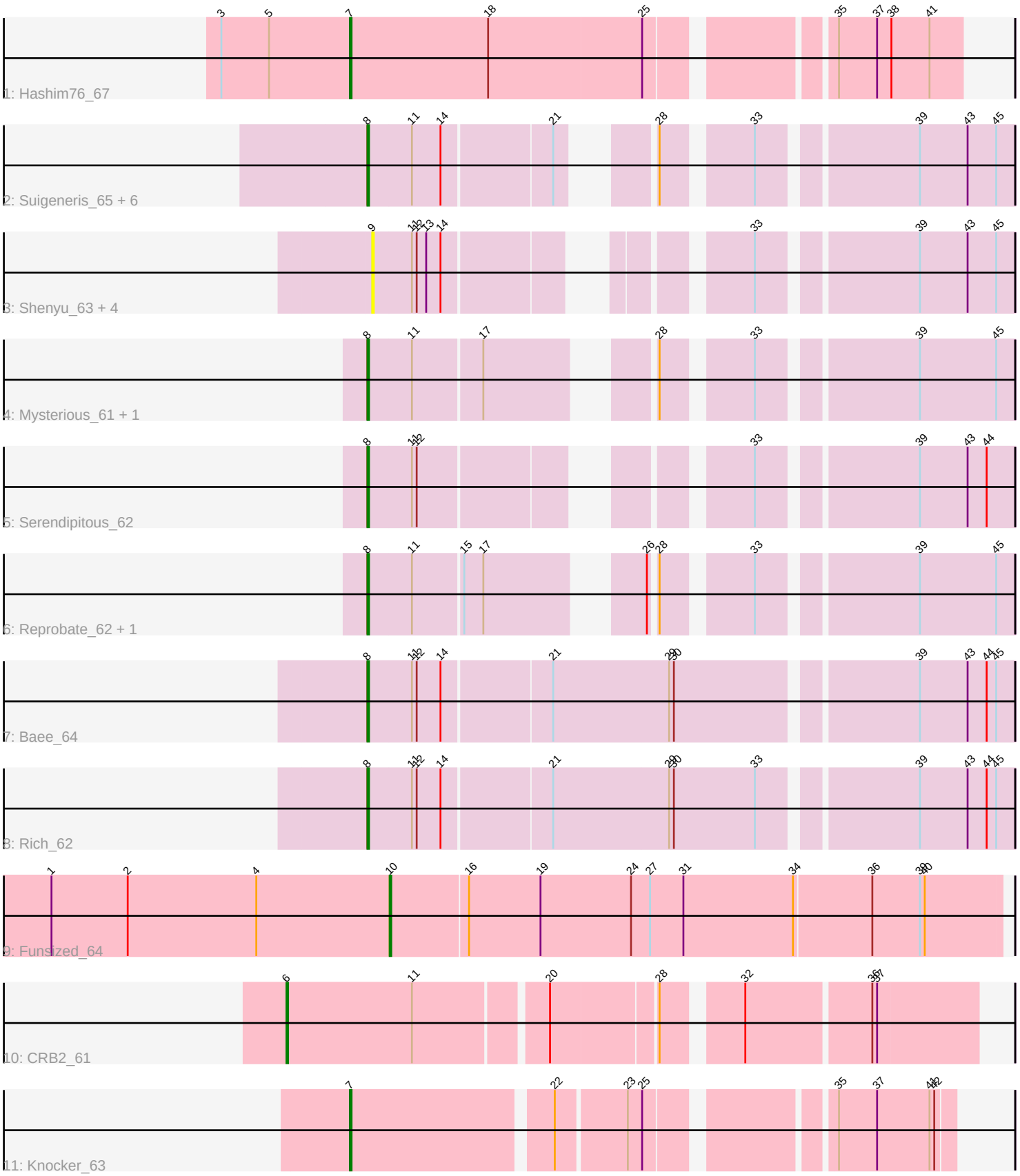
Pham 348004


1: Hashim76_67
2: Suigeneris_65 + 6
3: Shenyu_63 + 4
4: Mysterious_61 + 1
5: Serendipitous_62
6: Reprobate_62 + 1
7: Baee_64
8: Rich_62
9: Funsized_64
10: CRB2_61
11: Knocker_63

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 348004 Report

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

Pham number 348004 has 23 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Hashim76_67
• Track 2 : Suigeneris_65, SirJeffery_63, Acadian_64, Reccee_64, EastView9101_63, Donny_65, Rita130_63
• Track 3 : Shenyu_63, StinkyVeggy_63, Nangang_63, DigitDog_64, KarasumaRum_63
• Track 4 : Mysterious_61, Nehemiah_62
• Track 5 : Serendipitous_62
• Track 6 : Reprobate_62, Phelemich_61
• Track 7 : Baee_64
• Track 8 : Rich_62
• Track 9 : Funsized_64
• Track 10 : CRB2_61
• Track 11 : Knocker_63

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

The start number called the most often in the published annotations is 8, it was called in 11 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acadian_64, Baee_64, Donny_65, EastView9101_63, Mysterious_61, Nehemiah_62, Phelemich_61, Reccee_64, Reprobate_62, Rich_62, Rita130_63, Serendipitous_62, SirJeffery_63, Suigeneris_65,

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

Genes that do not have the "Most Annotated" start:
• CRB2_61, DigitDog_64, Funsized_64, Hashim76_67, KarasumaRum_63, Knocker_63, Nangang_63, Shenyu_63, StinkyVeggy_63,

Summary by start number:

Start 6:

• Found in 1 of 23 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CRB2_61 (B9),

Start 7:
• Found in 2 of 23 (8.7%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hashim76_67 (B13), Knocker_63 (B9),

Start 8:
• Found in 14 of 23 (60.9%) of genes in pham
• Manual Annotations of this start: 11 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acadian_64 (B5), Baee_64 (B5), Donny_65 (B5), EastView9101_63 (B5), Mysterious_61 (B5), Nehemiah_62 (B5), Phelemich_61 (B5), Reccee_64 (B5), Reprobate_62 (B5), Rich_62 (B5), Rita130_63 (B5), Serendipitous_62 (B5), SirJeffery_63 (B5), Suigeneris_65 (B5),

Start 9:
• Found in 5 of 23 (21.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DigitDog_64 (B5), KarasumaRum_63 (B5), Nangang_63 (B5), Shenyu_63 (B5), StinkyVeggy_63 (B5),

Start 10:
• Found in 1 of 23 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Funsized_64 (B9),

Summary by clusters:

There are 3 clusters represented in this pham: B5, B9, B13,

Info for manual annotations of cluster B13:
•Start number 7 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B5:
•Start number 8 was manually annotated 11 times for cluster B5.

Info for manual annotations of cluster B9:
•Start number 6 was manually annotated 1 time for cluster B9.
•Start number 7 was manually annotated 1 time for cluster B9.
•Start number 10 was manually annotated 1 time for cluster B9.

Gene Information:

Gene: Acadian_64 Start: 56676, Stop: 56335, Start Num: 8

Candidate Starts for Acadian_64:
(Start: 8 @56676 has 11 MA's), (11, 56649), (14, 56631), (21, 56565), (28, 56532), (33, 56484), (39, 56394), (43, 56364), (45, 56346),

Gene: Baee_64 Start: 57648, Stop: 57262, Start Num: 8
Candidate Starts for Baee_64:
(Start: 8 @57648 has 11 MA's), (11, 57621), (12, 57618), (14, 57603), (21, 57537), (29, 57465), (30, 57462), (39, 57321), (43, 57291), (44, 57279), (45, 57273),

Gene: CRB2_61 Start: 57387, Stop: 56986, Start Num: 6
Candidate Starts for CRB2_61:
(Start: 6 @57387 has 1 MA's), (11, 57309), (20, 57231), (28, 57168), (32, 57126), (36, 57051), (37, 57048),

Gene: DigitDog_64 Start: 56730, Stop: 56395, Start Num: 9
Candidate Starts for DigitDog_64:
(9, 56730), (11, 56706), (12, 56703), (13, 56697), (14, 56688), (33, 56544), (39, 56454), (43, 56424), (45, 56406),

Gene: Donny_65 Start: 56722, Stop: 56381, Start Num: 8
Candidate Starts for Donny_65:
(Start: 8 @56722 has 11 MA's), (11, 56695), (14, 56677), (21, 56611), (28, 56578), (33, 56530), (39, 56440), (43, 56410), (45, 56392),

Gene: EastView9101_63 Start: 56420, Stop: 56079, Start Num: 8
Candidate Starts for EastView9101_63:
(Start: 8 @56420 has 11 MA's), (11, 56393), (14, 56375), (21, 56309), (28, 56276), (33, 56228), (39, 56138), (43, 56108), (45, 56090),

Gene: Funsized_64 Start: 58606, Stop: 58226, Start Num: 10
Candidate Starts for Funsized_64:
(1, 58819), (2, 58771), (4, 58690), (Start: 10 @58606 has 1 MA's), (16, 58558), (19, 58513), (24, 58456), (27, 58444), (31, 58423), (34, 58354), (36, 58306), (39, 58276), (40, 58273),

Gene: Hashim76_67 Start: 56917, Stop: 56558, Start Num: 7
Candidate Starts for Hashim76_67:
(3, 56998), (5, 56968), (Start: 7 @56917 has 2 MA's), (18, 56830), (25, 56734), (35, 56635), (37, 56611), (38, 56602), (41, 56578),

Gene: KarasumaRum_63 Start: 56576, Stop: 56241, Start Num: 9
Candidate Starts for KarasumaRum_63:
(9, 56576), (11, 56552), (12, 56549), (13, 56543), (14, 56534), (33, 56390), (39, 56300), (43, 56270), (45, 56252),

Gene: Knocker_63 Start: 57737, Stop: 57396, Start Num: 7
Candidate Starts for Knocker_63:
(Start: 7 @57737 has 2 MA's), (22, 57617), (23, 57575), (25, 57566), (35, 57467), (37, 57443), (41, 57410), (42, 57407),

Gene: Mysterious_61 Start: 56569, Stop: 56225, Start Num: 8
Candidate Starts for Mysterious_61:
(Start: 8 @56569 has 11 MA's), (11, 56542), (17, 56500), (28, 56422), (33, 56374), (39, 56284), (45, 56236),

Gene: Nangang_63 Start: 56756, Stop: 56421, Start Num: 9
Candidate Starts for Nangang_63:
(9, 56756), (11, 56732), (12, 56729), (13, 56723), (14, 56714), (33, 56570), (39, 56480), (43, 56450), (45, 56432),

Gene: Nehemiah_62 Start: 56572, Stop: 56228, Start Num: 8
Candidate Starts for Nehemiah_62:
(Start: 8 @56572 has 11 MA's), (11, 56545), (17, 56503), (28, 56425), (33, 56377), (39, 56287), (45, 56239),

Gene: Phelemich_61 Start: 56567, Stop: 56223, Start Num: 8
Candidate Starts for Phelemich_61:
(Start: 8 @56567 has 11 MA's), (11, 56540), (15, 56510), (17, 56498), (26, 56423), (28, 56420), (33, 56372), (39, 56282), (45, 56234),

Gene: Reccee_64 Start: 56805, Stop: 56464, Start Num: 8
Candidate Starts for Reccee_64:
(Start: 8 @56805 has 11 MA's), (11, 56778), (14, 56760), (21, 56694), (28, 56661), (33, 56613), (39, 56523), (43, 56493), (45, 56475),

Gene: Reprobate_62 Start: 56572, Stop: 56228, Start Num: 8
Candidate Starts for Reprobate_62:
(Start: 8 @56572 has 11 MA's), (11, 56545), (15, 56515), (17, 56503), (26, 56428), (28, 56425), (33, 56377), (39, 56287), (45, 56239),

Gene: Rich_62 Start: 57709, Stop: 57323, Start Num: 8
Candidate Starts for Rich_62:
(Start: 8 @57709 has 11 MA's), (11, 57682), (12, 57679), (14, 57664), (21, 57598), (29, 57526), (30, 57523), (33, 57472), (39, 57382), (43, 57352), (44, 57340), (45, 57334),

Gene: Rita130_63 Start: 56618, Stop: 56277, Start Num: 8
Candidate Starts for Rita130_63:
(Start: 8 @56618 has 11 MA's), (11, 56591), (14, 56573), (21, 56507), (28, 56474), (33, 56426), (39, 56336), (43, 56306), (45, 56288),

Gene: Serendipitous_62 Start: 56107, Stop: 55766, Start Num: 8
Candidate Starts for Serendipitous_62:
(Start: 8 @56107 has 11 MA's), (11, 56080), (12, 56077), (33, 55915), (39, 55825), (43, 55795), (44, 55783),

Gene: Shenyu_63 Start: 56833, Stop: 56498, Start Num: 9
Candidate Starts for Shenyu_63:
(9, 56833), (11, 56809), (12, 56806), (13, 56800), (14, 56791), (33, 56647), (39, 56557), (43, 56527), (45, 56509),

Gene: SirJeffery_63 Start: 56753, Stop: 56412, Start Num: 8
Candidate Starts for SirJeffery_63:
(Start: 8 @56753 has 11 MA's), (11, 56726), (14, 56708), (21, 56642), (28, 56609), (33, 56561), (39, 56471), (43, 56441), (45, 56423),

Gene: StinkyVeggy_63 Start: 56576, Stop: 56241, Start Num: 9
Candidate Starts for StinkyVeggy_63:

(9, 56576), (11, 56552), (12, 56549), (13, 56543), (14, 56534), (33, 56390), (39, 56300), (43, 56270), (45, 56252),

Gene: Suigeneris_65 Start: 56871, Stop: 56530, Start Num: 8
Candidate Starts for Suigeneris_65:
(Start: 8 @56871 has 11 MA's), (11, 56844), (14, 56826), (21, 56760), (28, 56727), (33, 56679), (39, 56589), (43, 56559), (45, 56541),