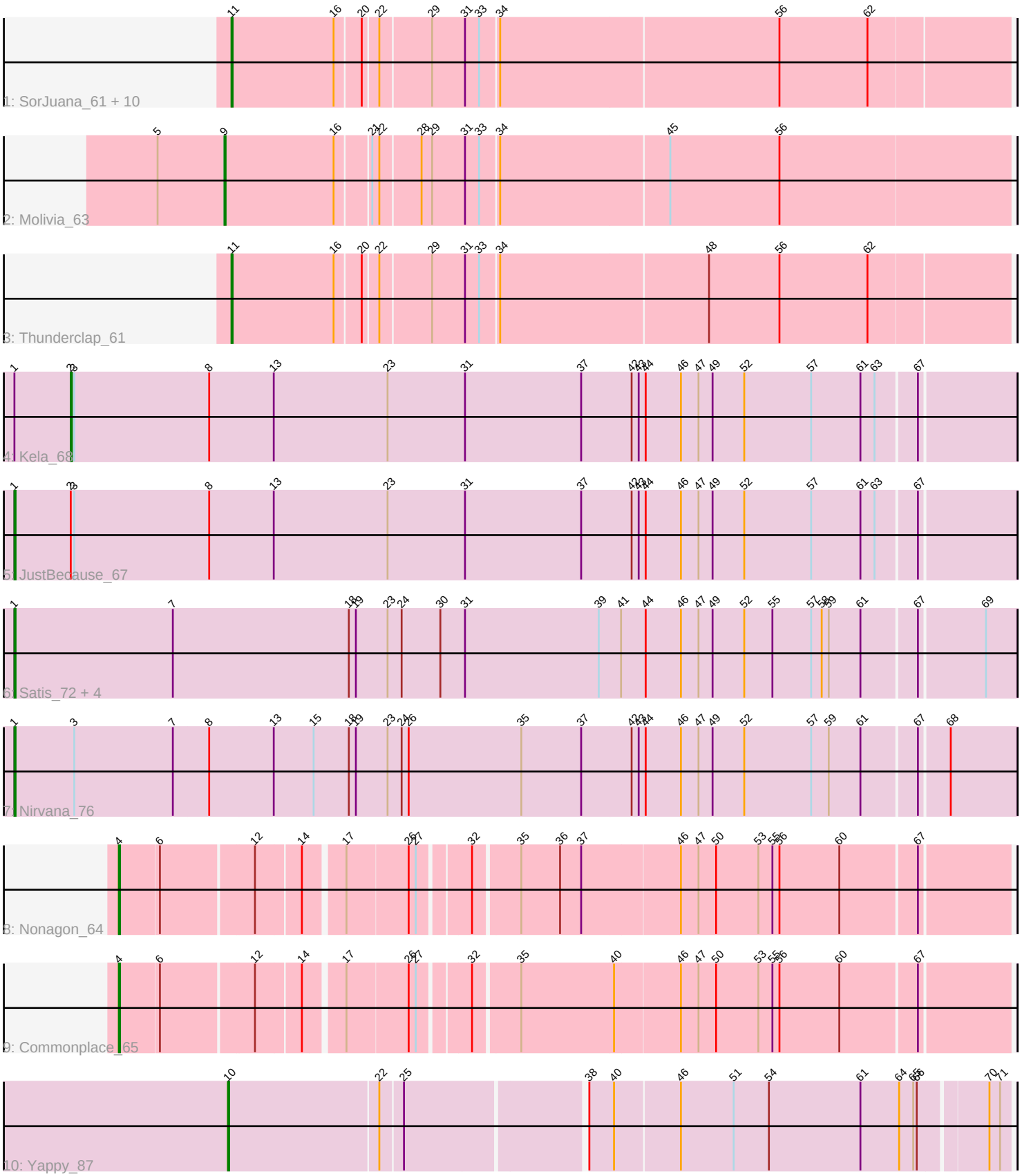
Pham 295040


1: SorJuana_61 + 10
2: Molivia_63
3: Thunderclap_61
4: Kela_68
5: JustBecause_67
6: Satis_72 + 4
7: Nirvana_76
8: Nonagon_64
9: Commonplace_65
10: Yappy_87

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 295040 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295040 has 24 members, 1 are drafts.

Phages represented in each track:
• Track 1 : SorJuana_61, Yeezus_61, Amigo_62, Amavida_63, Boersma_64, Gorgeous_61, Rings_62, Ichor_61, Heylee_64, Anansi_61, Jaek_61
• Track 2 : Molivia_63
• Track 3 : Thunderclap_61
• Track 4 : Kela_68
• Track 5 : JustBecause_67
• Track 6 : Satis_72, Kradal_72, Quantum_71, EhyElimayoE_72, Sarkar_76
• Track 7 : Nirvana_76
• Track 8 : Nonagon_64
• Track 9 : Commonplace_65
• Track 10 : Yappy_87

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

The start number called the most often in the published annotations is 11, it was called in 12 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amavida_63, Amigo_62, Anansi_61, Boersma_64, Gorgeous_61, Heylee_64, Ichor_61, Jaek_61, Rings_62, SorJuana_61, Thunderclap_61, Yeezus_61,

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

Genes that do not have the "Most Annotated" start:
• Commonplace_65, EhyElimayoE_72, JustBecause_67, Kela_68, Kradal_72, Molivia_63, Nirvana_76, Nonagon_64, Quantum_71, Sarkar_76, Satis_72, Yappy_87,

Summary by start number:

Start 1:
• Found in 8 of 24 (33.3%) of genes in pham
• Manual Annotations of this start: 6 of 23
• Called 87.5% of time when present

• Phage (with cluster) where this start called: EhyElimayoE_72 (BM), JustBecause_67 (BM), Kradal_72 (BM), Nirvana_76 (BM), Quantum_71 (BM), Sarkar_76 (BM), Satis_72 (BM),

Start 2:
• Found in 2 of 24 (8.3%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Kela_68 (BM),

Start 4:
• Found in 2 of 24 (8.3%) of genes in pham
• Manual Annotations of this start: 2 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Commonplace_65 (JD), Nonagon_64 (JD),

Start 9:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Molivia_63 (AQ),

Start 10:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Yappy_87 (singleton),

Start 11:
• Found in 12 of 24 (50.0%) of genes in pham
• Manual Annotations of this start: 12 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amavida_63 (AQ), Amigo_62 (AQ), Anansi_61 (AQ), Boersma_64 (AQ), Gorgeous_61 (AQ), Heylee_64 (AQ), Ichor_61 (AQ), Jaek_61 (AQ), Rings_62 (AQ), SorJuana_61 (AQ), Thunderclap_61 (AQ), Yeezus_61 (AQ),

Summary by clusters:

There are 4 clusters represented in this pham: AQ, BM, singleton, JD,

Info for manual annotations of cluster AQ:
•Start number 9 was manually annotated 1 time for cluster AQ.
•Start number 11 was manually annotated 12 times for cluster AQ.

Info for manual annotations of cluster BM:
•Start number 1 was manually annotated 6 times for cluster BM.
•Start number 2 was manually annotated 1 time for cluster BM.

Info for manual annotations of cluster JD:
•Start number 4 was manually annotated 2 times for cluster JD.

Gene Information:

Gene: Amavida_63 Start: 41647, Stop: 41006, Start Num: 11
Candidate Starts for Amavida_63:
(Start: 11 @41647 has 12 MA's), (16, 41560), (20, 41539), (22, 41527), (29, 41485), (31, 41458), (33, 41446), (34, 41431), (56, 41197), (62, 41122),

Gene: Amigo_62 Start: 41862, Stop: 41221, Start Num: 11
Candidate Starts for Amigo_62:
(Start: 11 @41862 has 12 MA's), (16, 41775), (20, 41754), (22, 41742), (29, 41700), (31, 41673), (33, 41661), (34, 41646), (56, 41412), (62, 41337),

Gene: Anansi_61 Start: 41469, Stop: 40828, Start Num: 11
Candidate Starts for Anansi_61:
(Start: 11 @41469 has 12 MA's), (16, 41382), (20, 41361), (22, 41349), (29, 41307), (31, 41280), (33, 41268), (34, 41253), (56, 41019), (62, 40944),

Gene: Boersma_64 Start: 41862, Stop: 41221, Start Num: 11
Candidate Starts for Boersma_64:
(Start: 11 @41862 has 12 MA's), (16, 41775), (20, 41754), (22, 41742), (29, 41700), (31, 41673), (33, 41661), (34, 41646), (56, 41412), (62, 41337),

Gene: Commonplace_65 Start: 42761, Stop: 42051, Start Num: 4
Candidate Starts for Commonplace_65:
(Start: 4 @42761 has 2 MA's), (6, 42728), (12, 42653), (14, 42617), (17, 42587), (26, 42536), (27, 42530), (32, 42491), (35, 42455), (40, 42377), (46, 42323), (47, 42308), (50, 42293), (53, 42257), (55, 42245), (56, 42239), (60, 42188), (67, 42125),

Gene: EhyElimayoE_72 Start: 53494, Stop: 52652, Start Num: 1
Candidate Starts for EhyElimayoE_72:
(Start: 1 @53494 has 6 MA's), (7, 53359), (18, 53212), (19, 53206), (23, 53179), (24, 53167), (30, 53134), (31, 53113), (39, 52999), (41, 52981), (44, 52960), (46, 52930), (47, 52915), (49, 52903), (52, 52876), (55, 52852), (57, 52819), (58, 52810), (59, 52804), (61, 52777), (67, 52732), (69, 52678),

Gene: Gorgeous_61 Start: 41469, Stop: 40828, Start Num: 11
Candidate Starts for Gorgeous_61:
(Start: 11 @41469 has 12 MA's), (16, 41382), (20, 41361), (22, 41349), (29, 41307), (31, 41280), (33, 41268), (34, 41253), (56, 41019), (62, 40944),

Gene: Heylee_64 Start: 41647, Stop: 41006, Start Num: 11
Candidate Starts for Heylee_64:
(Start: 11 @41647 has 12 MA's), (16, 41560), (20, 41539), (22, 41527), (29, 41485), (31, 41458), (33, 41446), (34, 41431), (56, 41197), (62, 41122),

Gene: Ichor_61 Start: 41862, Stop: 41221, Start Num: 11
Candidate Starts for Ichor_61:
(Start: 11 @41862 has 12 MA's), (16, 41775), (20, 41754), (22, 41742), (29, 41700), (31, 41673), (33, 41661), (34, 41646), (56, 41412), (62, 41337),

Gene: Jaek_61 Start: 41862, Stop: 41221, Start Num: 11
Candidate Starts for Jaek_61:

(Start: 11 @41862 has 12 MA's), (16, 41775), (20, 41754), (22, 41742), (29, 41700), (31, 41673), (33, 41661), (34, 41646), (56, 41412), (62, 41337),

Gene: JustBecause_67 Start: 50858, Stop: 50016, Start Num: 1
Candidate Starts for JustBecause_67:
(Start: 1 @50858 has 6 MA's), (Start: 2 @50810 has 1 MA's), (3, 50807), (8, 50693), (13, 50639), (23, 50543), (31, 50477), (37, 50378), (42, 50336), (43, 50330), (44, 50324), (46, 50294), (47, 50279), (49, 50267), (52, 50240), (57, 50183), (61, 50141), (63, 50129), (67, 50096),

Gene: Kela_68 Start: 50675, Stop: 49881, Start Num: 2
Candidate Starts for Kela_68:
(Start: 1 @50723 has 6 MA's), (Start: 2 @50675 has 1 MA's), (3, 50672), (8, 50558), (13, 50504), (23, 50408), (31, 50342), (37, 50243), (42, 50201), (43, 50195), (44, 50189), (46, 50159), (47, 50144), (49, 50132), (52, 50105), (57, 50048), (61, 50006), (63, 49994), (67, 49961),

Gene: Kradal_72 Start: 53494, Stop: 52652, Start Num: 1
Candidate Starts for Kradal_72:
(Start: 1 @53494 has 6 MA's), (7, 53359), (18, 53212), (19, 53206), (23, 53179), (24, 53167), (30, 53134), (31, 53113), (39, 52999), (41, 52981), (44, 52960), (46, 52930), (47, 52915), (49, 52903), (52, 52876), (55, 52852), (57, 52819), (58, 52810), (59, 52804), (61, 52777), (67, 52732), (69, 52678),

Gene: Molivia_63 Start: 40276, Stop: 39626, Start Num: 9
Candidate Starts for Molivia_63:
(5, 40333), (Start: 9 @40276 has 1 MA's), (16, 40183), (21, 40156), (22, 40150), (28, 40117), (29, 40108), (31, 40081), (33, 40069), (34, 40054), (45, 39913), (56, 39820),

Gene: Nirvana_76 Start: 55587, Stop: 54745, Start Num: 1
Candidate Starts for Nirvana_76:
(Start: 1 @55587 has 6 MA's), (3, 55536), (7, 55452), (8, 55422), (13, 55368), (15, 55335), (18, 55305), (19, 55299), (23, 55272), (24, 55260), (26, 55254), (35, 55158), (37, 55107), (42, 55065), (43, 55059), (44, 55053), (46, 55023), (47, 55008), (49, 54996), (52, 54969), (57, 54912), (59, 54897), (61, 54870), (67, 54825), (68, 54801),

Gene: Nonagon_64 Start: 42467, Stop: 41757, Start Num: 4
Candidate Starts for Nonagon_64:
(Start: 4 @42467 has 2 MA's), (6, 42434), (12, 42359), (14, 42323), (17, 42293), (26, 42242), (27, 42236), (32, 42197), (35, 42161), (36, 42128), (37, 42110), (46, 42029), (47, 42014), (50, 41999), (53, 41963), (55, 41951), (56, 41945), (60, 41894), (67, 41831),

Gene: Quantum_71 Start: 53494, Stop: 52652, Start Num: 1
Candidate Starts for Quantum_71:
(Start: 1 @53494 has 6 MA's), (7, 53359), (18, 53212), (19, 53206), (23, 53179), (24, 53167), (30, 53134), (31, 53113), (39, 52999), (41, 52981), (44, 52960), (46, 52930), (47, 52915), (49, 52903), (52, 52876), (55, 52852), (57, 52819), (58, 52810), (59, 52804), (61, 52777), (67, 52732), (69, 52678),

Gene: Rings_62 Start: 41910, Stop: 41269, Start Num: 11
Candidate Starts for Rings_62:
(Start: 11 @41910 has 12 MA's), (16, 41823), (20, 41802), (22, 41790), (29, 41748), (31, 41721), (33, 41709), (34, 41694), (56, 41460), (62, 41385),

Gene: Sarkar_76 Start: 53494, Stop: 52652, Start Num: 1
Candidate Starts for Sarkar_76:

(Start: 1 @53494 has 6 MA's), (7, 53359), (18, 53212), (19, 53206), (23, 53179), (24, 53167), (30, 53134), (31, 53113), (39, 52999), (41, 52981), (44, 52960), (46, 52930), (47, 52915), (49, 52903), (52, 52876), (55, 52852), (57, 52819), (58, 52810), (59, 52804), (61, 52777), (67, 52732), (69, 52678),

Gene: Satis_72 Start: 53490, Stop: 52648, Start Num: 1
Candidate Starts for Satis_72:
(Start: 1 @53490 has 6 MA's), (7, 53355), (18, 53208), (19, 53202), (23, 53175), (24, 53163), (30, 53130), (31, 53109), (39, 52995), (41, 52977), (44, 52956), (46, 52926), (47, 52911), (49, 52899), (52, 52872), (55, 52848), (57, 52815), (58, 52806), (59, 52800), (61, 52773), (67, 52728), (69, 52674),

Gene: SorJuana_61 Start: 41469, Stop: 40828, Start Num: 11
Candidate Starts for SorJuana_61:
(Start: 11 @41469 has 12 MA's), (16, 41382), (20, 41361), (22, 41349), (29, 41307), (31, 41280), (33, 41268), (34, 41253), (56, 41019), (62, 40944),

Gene: Thunderclap_61 Start: 41891, Stop: 41250, Start Num: 11
Candidate Starts for Thunderclap_61:
(Start: 11 @41891 has 12 MA's), (16, 41804), (20, 41783), (22, 41771), (29, 41729), (31, 41702), (33, 41690), (34, 41675), (48, 41501), (56, 41441), (62, 41366),

Gene: Yappy_87 Start: 45148, Stop: 44513, Start Num: 10
Candidate Starts for Yappy_87:
(Start: 10 @45148 has 1 MA's), (22, 45022), (25, 45004), (38, 44860), (40, 44839), (46, 44785), (51, 44740), (54, 44710), (61, 44632), (64, 44599), (65, 44587), (66, 44584), (70, 44530), (71, 44521),

Gene: Yeezus_61 Start: 41861, Stop: 41220, Start Num: 11
Candidate Starts for Yeezus_61:
(Start: 11 @41861 has 12 MA's), (16, 41774), (20, 41753), (22, 41741), (29, 41699), (31, 41672), (33, 41660), (34, 41645), (56, 41411), (62, 41336),