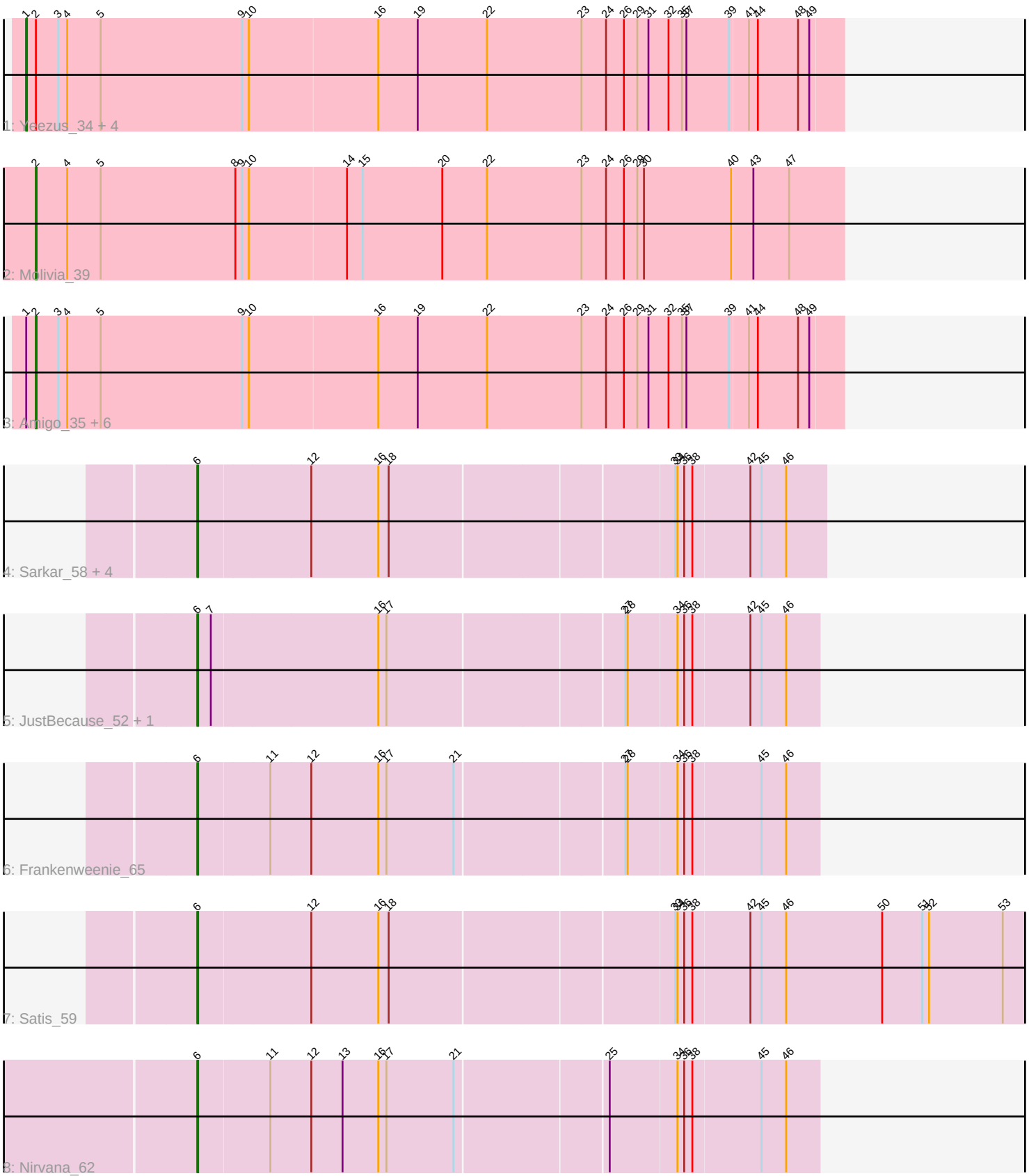
Pham 348005


1: Yeezus_34 + 4
2: Molivia_39
3: Amigo_35 + 6
4: Sarkar_58 + 4
5: JustBecause_52 + 1
6: Frankenweenie_65
7: Satis_59
8: Nirvana_62

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 348005 Report

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

Pham number 348005 has 23 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Yeezus_34, Amavida_38, Boersma_36, Ichor_34, Jaek_34
• Track 2 : Molivia_39
• Track 3 : Amigo_35, Rings_34, Heylee_38, Gorgeous_35, Thunderclap_35, Anansi_35, SorJuana_35
• Track 4 : Sarkar_58, Satis_58, Kradal_58, Quantum_57, EhyElimayoE_58
• Track 5 : JustBecause_52, Kela_53
• Track 6 : Frankenweenie_65
• Track 7 : Satis_59
• Track 8 : Nirvana_62

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

The start number called the most often in the published annotations is 6, it was called in 10 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• EhyElimayoE_58, Frankenweenie_65, JustBecause_52, Kela_53, Kradal_58, Nirvana_62, Quantum_57, Sarkar_58, Satis_58, Satis_59,

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

Genes that do not have the "Most Annotated" start:
• Amavida_38, Amigo_35, Anansi_35, Boersma_36, Gorgeous_35, Heylee_38, Ichor_34, Jaek_34, Molivia_39, Rings_34, SorJuana_35, Thunderclap_35, Yeezus_34,

Summary by start number:

Start 1:
• Found in 12 of 23 (52.2%) of genes in pham
• Manual Annotations of this start: 5 of 23
• Called 41.7% of time when present

• Phage (with cluster) where this start called: Amavida_38 (AQ), Boersma_36 (AQ), Ichor_34 (AQ), Jaek_34 (AQ), Yeezus_34 (AQ),

Start 2:
• Found in 13 of 23 (56.5%) of genes in pham
• Manual Annotations of this start: 8 of 23
• Called 61.5% of time when present
• Phage (with cluster) where this start called: Amigo_35 (AQ), Anansi_35 (AQ), Gorgeous_35 (AQ), Heylee_38 (AQ), Molivia_39 (AQ), Rings_34 (AQ), SorJuana_35 (AQ), Thunderclap_35 (AQ),

Start 6:
• Found in 10 of 23 (43.5%) of genes in pham
• Manual Annotations of this start: 10 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EhyElimayoE_58 (BM), Frankenweenie_65 (BM), JustBecause_52 (BM), Kela_53 (BM), Kradal_58 (BM), Nirvana_62 (BM), Quantum_57 (BM), Sarkar_58 (BM), Satis_58 (BM), Satis_59 (BM),

Summary by clusters:

There are 2 clusters represented in this pham: AQ, BM,

Info for manual annotations of cluster AQ:
•Start number 1 was manually annotated 5 times for cluster AQ.
•Start number 2 was manually annotated 8 times for cluster AQ.

Info for manual annotations of cluster BM:
•Start number 6 was manually annotated 10 times for cluster BM.

Gene Information:

Gene: Amavida_38 Start: 17852, Stop: 18936, Start Num: 1
Candidate Starts for Amavida_38:
(Start: 1 @17852 has 5 MA's), (Start: 2 @17864 has 8 MA's), (3, 17894), (4, 17906), (5, 17951), (9, 18140), (10, 18149), (16, 18320), (19, 18371), (22, 18464), (23, 18590), (24, 18623), (26, 18647), (29, 18665), (31, 18680), (32, 18707), (35, 18725), (37, 18731), (39, 18788), (41, 18812), (44, 18824), (48, 18878), (49, 18893),

Gene: Amigo_35 Start: 17738, Stop: 18810, Start Num: 2
Candidate Starts for Amigo_35:
(Start: 1 @17726 has 5 MA's), (Start: 2 @17738 has 8 MA's), (3, 17768), (4, 17780), (5, 17825), (9, 18014), (10, 18023), (16, 18194), (19, 18245), (22, 18338), (23, 18464), (24, 18497), (26, 18521), (29, 18539), (31, 18554), (32, 18581), (35, 18599), (37, 18605), (39, 18662), (41, 18686), (44, 18698), (48, 18752), (49, 18767),

Gene: Anansi_35 Start: 17747, Stop: 18819, Start Num: 2
Candidate Starts for Anansi_35:
(Start: 1 @17735 has 5 MA's), (Start: 2 @17747 has 8 MA's), (3, 17777), (4, 17789), (5, 17834), (9, 18023), (10, 18032), (16, 18203), (19, 18254), (22, 18347), (23, 18473), (24, 18506), (26, 18530), (29, 18548), (31, 18563), (32, 18590), (35, 18608), (37, 18614), (39, 18671), (41, 18695), (44, 18707), (48,

18761), (49, 18776),

Gene: Boersma_36 Start: 17726, Stop: 18810, Start Num: 1
Candidate Starts for Boersma_36:
(Start: 1 @17726 has 5 MA's), (Start: 2 @17738 has 8 MA's), (3, 17768), (4, 17780), (5, 17825), (9, 18014), (10, 18023), (16, 18194), (19, 18245), (22, 18338), (23, 18464), (24, 18497), (26, 18521), (29, 18539), (31, 18554), (32, 18581), (35, 18599), (37, 18605), (39, 18662), (41, 18686), (44, 18698), (48, 18752), (49, 18767),

Gene: EhyElimayoE_58 Start: 32298, Stop: 33107, Start Num: 6
Candidate Starts for EhyElimayoE_58:
(Start: 6 @32298 has 10 MA's), (12, 32445), (16, 32535), (18, 32547), (33, 32910), (34, 32913), (36, 32922), (38, 32931), (42, 33006), (45, 33021), (46, 33054),

Gene: Frankenweenie_65 Start: 34889, Stop: 35689, Start Num: 6
Candidate Starts for Frankenweenie_65:
(Start: 6 @34889 has 10 MA's), (11, 34982), (12, 35036), (16, 35126), (17, 35135), (21, 35225), (27, 35438), (28, 35441), (34, 35504), (36, 35513), (38, 35522), (45, 35612), (46, 35645),

Gene: Gorgeous_35 Start: 17747, Stop: 18819, Start Num: 2
Candidate Starts for Gorgeous_35:
(Start: 1 @17735 has 5 MA's), (Start: 2 @17747 has 8 MA's), (3, 17777), (4, 17789), (5, 17834), (9, 18023), (10, 18032), (16, 18203), (19, 18254), (22, 18347), (23, 18473), (24, 18506), (26, 18530), (29, 18548), (31, 18563), (32, 18590), (35, 18608), (37, 18614), (39, 18671), (41, 18695), (44, 18707), (48, 18761), (49, 18776),

Gene: Heylee_38 Start: 17864, Stop: 18936, Start Num: 2
Candidate Starts for Heylee_38:
(Start: 1 @17852 has 5 MA's), (Start: 2 @17864 has 8 MA's), (3, 17894), (4, 17906), (5, 17951), (9, 18140), (10, 18149), (16, 18320), (19, 18371), (22, 18464), (23, 18590), (24, 18623), (26, 18647), (29, 18665), (31, 18680), (32, 18707), (35, 18725), (37, 18731), (39, 18788), (41, 18812), (44, 18824), (48, 18878), (49, 18893),

Gene: Ichor_34 Start: 17726, Stop: 18810, Start Num: 1
Candidate Starts for Ichor_34:
(Start: 1 @17726 has 5 MA's), (Start: 2 @17738 has 8 MA's), (3, 17768), (4, 17780), (5, 17825), (9, 18014), (10, 18023), (16, 18194), (19, 18245), (22, 18338), (23, 18464), (24, 18497), (26, 18521), (29, 18539), (31, 18554), (32, 18581), (35, 18599), (37, 18605), (39, 18662), (41, 18686), (44, 18698), (48, 18752), (49, 18767),

Gene: Jaek_34 Start: 17726, Stop: 18810, Start Num: 1
Candidate Starts for Jaek_34:
(Start: 1 @17726 has 5 MA's), (Start: 2 @17738 has 8 MA's), (3, 17768), (4, 17780), (5, 17825), (9, 18014), (10, 18023), (16, 18194), (19, 18245), (22, 18338), (23, 18464), (24, 18497), (26, 18521), (29, 18539), (31, 18554), (32, 18581), (35, 18599), (37, 18605), (39, 18662), (41, 18686), (44, 18698), (48, 18752), (49, 18767),

Gene: JustBecause_52 Start: 29524, Stop: 30324, Start Num: 6
Candidate Starts for JustBecause_52:
(Start: 6 @29524 has 10 MA's), (7, 29542), (16, 29761), (17, 29770), (27, 30073), (28, 30076), (34, 30139), (36, 30148), (38, 30157), (42, 30232), (45, 30247), (46, 30280),

Gene: Kela_53 Start: 29389, Stop: 30189, Start Num: 6

Candidate Starts for Kela_53:
(Start: 6 @29389 has 10 MA's), (7, 29407), (16, 29626), (17, 29635), (27, 29938), (28, 29941), (34, 30004), (36, 30013), (38, 30022), (42, 30097), (45, 30112), (46, 30145),

Gene: Kradal_58 Start: 32298, Stop: 33107, Start Num: 6
Candidate Starts for Kradal_58:
(Start: 6 @32298 has 10 MA's), (12, 32445), (16, 32535), (18, 32547), (33, 32910), (34, 32913), (36, 32922), (38, 32931), (42, 33006), (45, 33021), (46, 33054),

Gene: Molivia_39 Start: 17990, Stop: 19065, Start Num: 2
Candidate Starts for Molivia_39:
(Start: 2 @17990 has 8 MA's), (4, 18032), (5, 18077), (8, 18257), (9, 18266), (10, 18275), (14, 18404), (15, 18425), (20, 18530), (22, 18590), (23, 18716), (24, 18749), (26, 18773), (29, 18791), (30, 18800), (40, 18917), (43, 18944), (47, 18992),

Gene: Nirvana_62 Start: 34262, Stop: 35062, Start Num: 6
Candidate Starts for Nirvana_62:
(Start: 6 @34262 has 10 MA's), (11, 34355), (12, 34409), (13, 34451), (16, 34499), (17, 34508), (21, 34598), (25, 34790), (34, 34877), (36, 34886), (38, 34895), (45, 34985), (46, 35018),

Gene: Quantum_57 Start: 32298, Stop: 33107, Start Num: 6
Candidate Starts for Quantum_57:
(Start: 6 @32298 has 10 MA's), (12, 32445), (16, 32535), (18, 32547), (33, 32910), (34, 32913), (36, 32922), (38, 32931), (42, 33006), (45, 33021), (46, 33054),

Gene: Rings_34 Start: 17869, Stop: 18941, Start Num: 2
Candidate Starts for Rings_34:
(Start: 1 @17857 has 5 MA's), (Start: 2 @17869 has 8 MA's), (3, 17899), (4, 17911), (5, 17956), (9, 18145), (10, 18154), (16, 18325), (19, 18376), (22, 18469), (23, 18595), (24, 18628), (26, 18652), (29, 18670), (31, 18685), (32, 18712), (35, 18730), (37, 18736), (39, 18793), (41, 18817), (44, 18829), (48, 18883), (49, 18898),

Gene: Sarkar_58 Start: 32298, Stop: 33107, Start Num: 6
Candidate Starts for Sarkar_58:
(Start: 6 @32298 has 10 MA's), (12, 32445), (16, 32535), (18, 32547), (33, 32910), (34, 32913), (36, 32922), (38, 32931), (42, 33006), (45, 33021), (46, 33054),

Gene: Satis_58 Start: 32294, Stop: 33103, Start Num: 6
Candidate Starts for Satis_58:
(Start: 6 @32294 has 10 MA's), (12, 32441), (16, 32531), (18, 32543), (33, 32906), (34, 32909), (36, 32918), (38, 32927), (42, 33002), (45, 33017), (46, 33050),

Gene: Satis_59 Start: 32294, Stop: 33407, Start Num: 6
Candidate Starts for Satis_59:
(Start: 6 @32294 has 10 MA's), (12, 32441), (16, 32531), (18, 32543), (33, 32906), (34, 32909), (36, 32918), (38, 32927), (42, 33002), (45, 33017), (46, 33050), (50, 33179), (51, 33233), (52, 33242), (53, 33341),

Gene: SorJuana_35 Start: 17747, Stop: 18819, Start Num: 2
Candidate Starts for SorJuana_35:
(Start: 1 @17735 has 5 MA's), (Start: 2 @17747 has 8 MA's), (3, 17777), (4, 17789), (5, 17834), (9, 18023), (10, 18032), (16, 18203), (19, 18254), (22, 18347), (23, 18473), (24, 18506), (26, 18530), (29, 18548), (31, 18563), (32, 18590), (35, 18608), (37, 18614), (39, 18671), (41, 18695), (44, 18707), (48,

18761), (49, 18776),

Gene: Thunderclap_35 Start: 17767, Stop: 18839, Start Num: 2
Candidate Starts for Thunderclap_35:
(Start: 1 @17755 has 5 MA's), (Start: 2 @17767 has 8 MA's), (3, 17797), (4, 17809), (5, 17854), (9, 18043), (10, 18052), (16, 18223), (19, 18274), (22, 18367), (23, 18493), (24, 18526), (26, 18550), (29, 18568), (31, 18583), (32, 18610), (35, 18628), (37, 18634), (39, 18691), (41, 18715), (44, 18727), (48, 18781), (49, 18796),

Gene: Yeezus_34 Start: 17725, Stop: 18809, Start Num: 1
Candidate Starts for Yeezus_34:
(Start: 1 @17725 has 5 MA's), (Start: 2 @17737 has 8 MA's), (3, 17767), (4, 17779), (5, 17824), (9, 18013), (10, 18022), (16, 18193), (19, 18244), (22, 18337), (23, 18463), (24, 18496), (26, 18520), (29, 18538), (31, 18553), (32, 18580), (35, 18598), (37, 18604), (39, 18661), (41, 18685), (44, 18697), (48, 18751), (49, 18766),