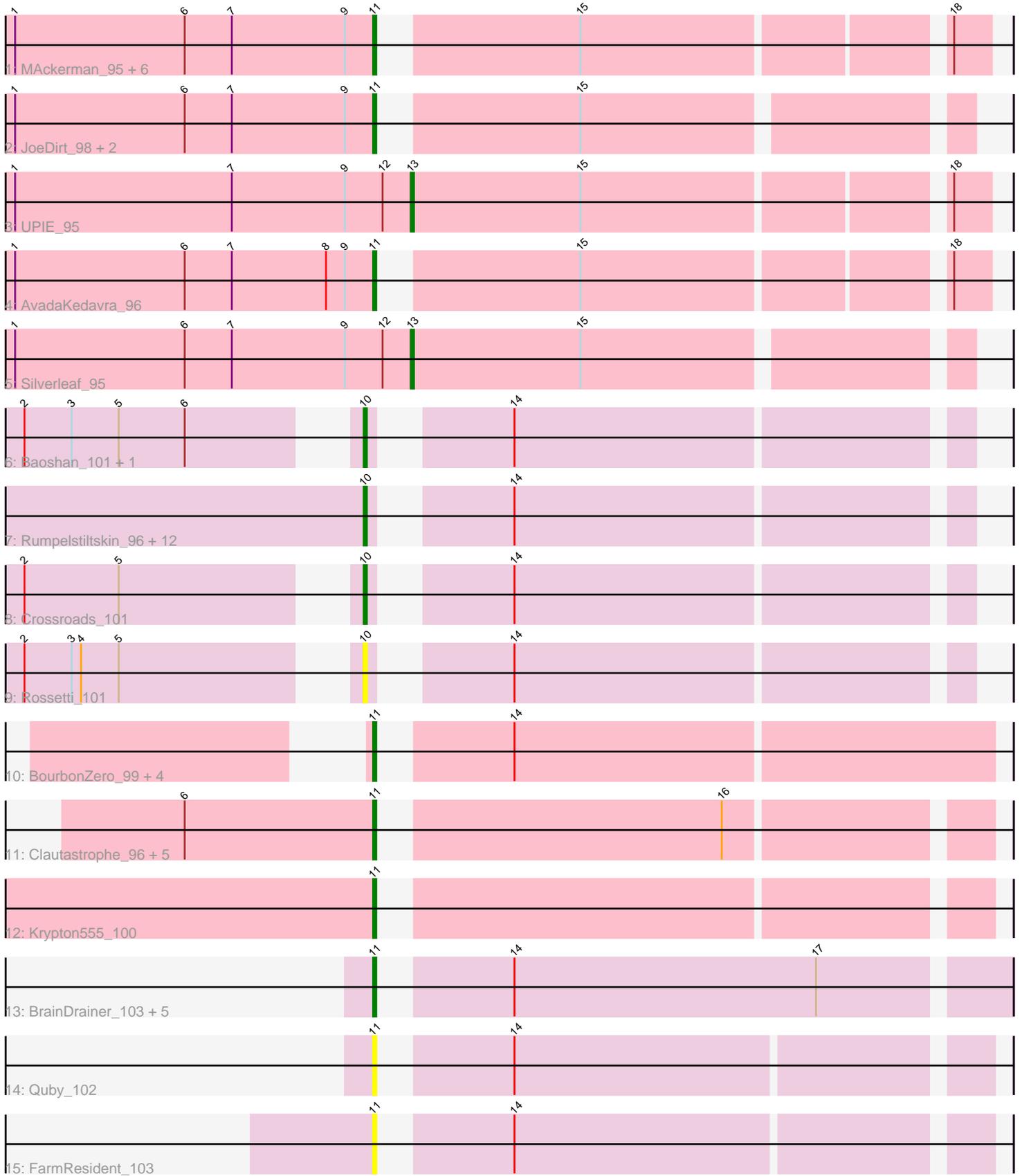Pham 291251

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 291251 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291251 has 50 members, 13 are drafts.

Phages represented in each track:
• Track 1 : MAckerman_95, Tyson_98, Zaria_97, Acquire49_96, Halena_94, Wyatt2_97, Calm_98
• Track 2 : JoeDirt_98, Rose5_98, Enceladus_93
• Track 3 : UPIE_95
• Track 4 : AvadaKedavra_96
• Track 5 : Silverleaf_95
• Track 6 : Baoshan_101, DanBing_100
• Track 7 : Rumpelstiltskin_96, Itos_100, SoJulia_102, Nicholasp3_100, Finemlucis_101, Kahlid_99, Archie_97, Zakai_101, Gabriela_100, LilDestine_98, Bazzle_97, Underpass_92, BobsGarage_99
• Track 8 : Crossroads_101
• Track 9 : Rossetti_101
• Track 10 : BourbonZero_99, DuncansLeg_99, KirDoubleO7_96, Ellson_97, LiyuLake_97
• Track 11 : Clautastrophe_96, Bellis_98, Jubie_97, Samty_97, Finnry_98, MsGreen_98
• Track 12 : Krypton555_100
• Track 13 : BrainDrainer_103, Douzhi_102, PYPDinur_102, Sheng711_103, Bromden_102, Douge_102
• Track 14 : Quby_102
• Track 15 : FarmResident_103

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 21 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acquire49_96, AvadaKedavra_96, Bellis_98, BourbonZero_99, BrainDrainer_103, Bromden_102, Calm_98, Clautastrophe_96, Douge_102, Douzhi_102, DuncansLeg_99, Ellson_97, Enceladus_93, FarmResident_103, Finnry_98, Halena_94, JoeDirt_98, Jubie_97, KirDoubleO7_96, Krypton555_100, LiyuLake_97, MAckerman_95, MsGreen_98, PYPDinur_102, Quby_102, Rose5_98, Samty_97, Sheng711_103, Tyson_98, Wyatt2_97, Zaria_97,

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

Genes that do not have the "Most Annotated" start:
• Archie_97, Baoshan_101, Bazzle_97, BobsGarage_99, Crossroads_101, DanBing_100, Finemlucis_101, Gabriela_100, Itos_100, Kahlid_99, LilDestine_98, Nicholasp3_100, Rossetti_101, Rumpelstiltskin_96, Silverleaf_95, SoJulia_102, UPIE_95, Underpass_92, Zakai_101,

Summary by start number:

Start 10:
• Found in 17 of 50 (34.0%) of genes in pham
• Manual Annotations of this start: 14 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Archie_97 (L2), Baoshan_101 (L2), Bazzle_97 (L2), BobsGarage_99 (L2), Crossroads_101 (L2), DanBing_100 (L2), Finemlucis_101 (L2), Gabriela_100 (L2), Itos_100 (L2), Kahlid_99 (L2), LilDestine_98 (L2), Nicholasp3_100 (L2), Rossetti_101 (L2), Rumpelstiltskin_96 (L2), SoJulia_102 (L2), Underpass_92 (L2), Zakai_101 (L2),

Start 11:
• Found in 31 of 50 (62.0%) of genes in pham
• Manual Annotations of this start: 21 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acquire49_96 (L1), AvadaKedavra_96 (L1), Bellis_98 (L3), BourbonZero_99 (L3), BrainDrainer_103 (L4), Bromden_102 (L4), Calm_98 (L1), Clautastrophe_96 (L3), Douge_102 (L4), Douzhi_102 (L4), DuncansLeg_99 (L3), Ellson_97 (L3), Enceladus_93 (L1), FarmResident_103 (L4), Finnry_98 (L3), Halena_94 (L1), JoeDirt_98 (L1), Jubie_97 (L3), KirDoubleO7_96 (L3), Krypton555_100 (L3), LiyuLake_97 (L3), MAckerman_95 (L1), MsGreen_98 (L3), PYPDinur_102 (L4), Quby_102 (L4), Rose5_98 (L1), Samty_97 (L3), Sheng711_103 (L4), Tyson_98 (L1), Wyatt2_97 (L1), Zaria_97 (L1),

Start 13:
• Found in 2 of 50 (4.0%) of genes in pham
• Manual Annotations of this start: 2 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Silverleaf_95 (L1), UPIE_95 (L1),

Summary by clusters:

There are 4 clusters represented in this pham: L4, L2, L3, L1,

Info for manual annotations of cluster L1:
•Start number 11 was manually annotated 11 times for cluster L1.
•Start number 13 was manually annotated 2 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 10 was manually annotated 14 times for cluster L2.

Info for manual annotations of cluster L3:

•Start number 11 was manually annotated 8 times for cluster L3.

Info for manual annotations of cluster L4:
•Start number 11 was manually annotated 2 times for cluster L4.

Gene Information:

Gene: Acquire49_96 Start: 59453, Stop: 59626, Start Num: 11
Candidate Starts for Acquire49_96:
(1, 59339), (6, 59393), (7, 59408), (9, 59444), (Start: 11 @59453 has 21 MA's), (15, 59507), (18, 59615),

Gene: Archie_97 Start: 61162, Stop: 61338, Start Num: 10
Candidate Starts for Archie_97:
(Start: 10 @61162 has 14 MA's), (14, 61195),

Gene: AvadaKedavra_96 Start: 59565, Stop: 59738, Start Num: 11
Candidate Starts for AvadaKedavra_96:
(1, 59451), (6, 59505), (7, 59520), (8, 59550), (9, 59556), (Start: 11 @59565 has 21 MA's), (15, 59619), (18, 59727),

Gene: Baoshan_101 Start: 61947, Stop: 62117, Start Num: 10
Candidate Starts for Baoshan_101:
(2, 61857), (3, 61872), (5, 61887), (6, 61908), (Start: 10 @61947 has 14 MA's), (14, 61980),

Gene: Bazzle_97 Start: 61718, Stop: 61894, Start Num: 10
Candidate Starts for Bazzle_97:
(Start: 10 @61718 has 14 MA's), (14, 61751),

Gene: Bellis_98 Start: 61495, Stop: 61671, Start Num: 11
Candidate Starts for Bellis_98:
(6, 61435), (Start: 11 @61495 has 21 MA's), (16, 61594),

Gene: BobsGarage_99 Start: 61936, Stop: 62106, Start Num: 10
Candidate Starts for BobsGarage_99:
(Start: 10 @61936 has 14 MA's), (14, 61969),

Gene: BourbonZero_99 Start: 61668, Stop: 61850, Start Num: 11
Candidate Starts for BourbonZero_99:
(Start: 11 @61668 has 21 MA's), (14, 61701),

Gene: BrainDrainer_103 Start: 61982, Stop: 62167, Start Num: 11
Candidate Starts for BrainDrainer_103:
(Start: 11 @61982 has 21 MA's), (14, 62015), (17, 62111),

Gene: Bromden_102 Start: 62718, Stop: 62903, Start Num: 11
Candidate Starts for Bromden_102:
(Start: 11 @62718 has 21 MA's), (14, 62751), (17, 62847),

Gene: Calm_98 Start: 59832, Stop: 60005, Start Num: 11
Candidate Starts for Calm_98:

(1, 59718), (6, 59772), (7, 59787), (9, 59823), (Start: 11 @59832 has 21 MA's), (15, 59886), (18, 59994),

Gene: Clautastrophe_96 Start: 61490, Stop: 61666, Start Num: 11
Candidate Starts for Clautastrophe_96:
(6, 61430), (Start: 11 @61490 has 21 MA's), (16, 61589),

Gene: Crossroads_101 Start: 61823, Stop: 61993, Start Num: 10
Candidate Starts for Crossroads_101:
(2, 61733), (5, 61763), (Start: 10 @61823 has 14 MA's), (14, 61856),

Gene: DanBing_100 Start: 61639, Stop: 61809, Start Num: 10
Candidate Starts for DanBing_100:
(2, 61549), (3, 61564), (5, 61579), (6, 61600), (Start: 10 @61639 has 14 MA's), (14, 61672),

Gene: Douge_102 Start: 61402, Stop: 61587, Start Num: 11
Candidate Starts for Douge_102:
(Start: 11 @61402 has 21 MA's), (14, 61435), (17, 61531),

Gene: Douzhi_102 Start: 61671, Stop: 61856, Start Num: 11
Candidate Starts for Douzhi_102:
(Start: 11 @61671 has 21 MA's), (14, 61704), (17, 61800),

Gene: DuncansLeg_99 Start: 61656, Stop: 61838, Start Num: 11
Candidate Starts for DuncansLeg_99:
(Start: 11 @61656 has 21 MA's), (14, 61689),

Gene: Ellson_97 Start: 61971, Stop: 62153, Start Num: 11
Candidate Starts for Ellson_97:
(Start: 11 @61971 has 21 MA's), (14, 62004),

Gene: Enceladus_93 Start: 59494, Stop: 59661, Start Num: 11
Candidate Starts for Enceladus_93:
(1, 59380), (6, 59434), (7, 59449), (9, 59485), (Start: 11 @59494 has 21 MA's), (15, 59548),

Gene: FarmResident_103 Start: 61588, Stop: 61764, Start Num: 11
Candidate Starts for FarmResident_103:
(Start: 11 @61588 has 21 MA's), (14, 61621),

Gene: Finemlucis_101 Start: 62639, Stop: 62809, Start Num: 10
Candidate Starts for Finemlucis_101:
(Start: 10 @62639 has 14 MA's), (14, 62672),

Gene: Finnry_98 Start: 61843, Stop: 62019, Start Num: 11
Candidate Starts for Finnry_98:
(6, 61783), (Start: 11 @61843 has 21 MA's), (16, 61942),

Gene: Gabriela_100 Start: 60925, Stop: 61095, Start Num: 10
Candidate Starts for Gabriela_100:
(Start: 10 @60925 has 14 MA's), (14, 60958),

Gene: Halena_94 Start: 58748, Stop: 58921, Start Num: 11
Candidate Starts for Halena_94:

(1, 58634), (6, 58688), (7, 58703), (9, 58739), (Start: 11 @58748 has 21 MA's), (15, 58802), (18, 58910),

Gene: Itos_100 Start: 60485, Stop: 60655, Start Num: 10
Candidate Starts for Itos_100:
(Start: 10 @60485 has 14 MA's), (14, 60518),

Gene: JoeDirt_98 Start: 60423, Stop: 60590, Start Num: 11
Candidate Starts for JoeDirt_98:
(1, 60309), (6, 60363), (7, 60378), (9, 60414), (Start: 11 @60423 has 21 MA's), (15, 60477),

Gene: Jubie_97 Start: 61625, Stop: 61801, Start Num: 11
Candidate Starts for Jubie_97:
(6, 61565), (Start: 11 @61625 has 21 MA's), (16, 61724),

Gene: Kahlid_99 Start: 61290, Stop: 61460, Start Num: 10
Candidate Starts for Kahlid_99:
(Start: 10 @61290 has 14 MA's), (14, 61323),

Gene: KirDoubleO7_96 Start: 61658, Stop: 61840, Start Num: 11
Candidate Starts for KirDoubleO7_96:
(Start: 11 @61658 has 21 MA's), (14, 61691),

Gene: Krypton555_100 Start: 61911, Stop: 62087, Start Num: 11
Candidate Starts for Krypton555_100:
(Start: 11 @61911 has 21 MA's),

Gene: LilDestine_98 Start: 61249, Stop: 61419, Start Num: 10
Candidate Starts for LilDestine_98:
(Start: 10 @61249 has 14 MA's), (14, 61282),

Gene: LiyuLake_97 Start: 61731, Stop: 61913, Start Num: 11
Candidate Starts for LiyuLake_97:
(Start: 11 @61731 has 21 MA's), (14, 61764),

Gene: MAckerman_95 Start: 58741, Stop: 58914, Start Num: 11
Candidate Starts for MAckerman_95:
(1, 58627), (6, 58681), (7, 58696), (9, 58732), (Start: 11 @58741 has 21 MA's), (15, 58795), (18, 58903),

Gene: MsGreen_98 Start: 61489, Stop: 61665, Start Num: 11
Candidate Starts for MsGreen_98:
(6, 61429), (Start: 11 @61489 has 21 MA's), (16, 61588),

Gene: Nicholasp3_100 Start: 61372, Stop: 61542, Start Num: 10
Candidate Starts for Nicholasp3_100:
(Start: 10 @61372 has 14 MA's), (14, 61405),

Gene: PYPDinur_102 Start: 62234, Stop: 62419, Start Num: 11
Candidate Starts for PYPDinur_102:
(Start: 11 @62234 has 21 MA's), (14, 62267), (17, 62363),

Gene: Quby_102 Start: 61563, Stop: 61739, Start Num: 11

Candidate Starts for Quby_102:
(Start: 11 @61563 has 21 MA's), (14, 61596),

Gene: Rose5_98 Start: 60265, Stop: 60432, Start Num: 11
Candidate Starts for Rose5_98:
(1, 60151), (6, 60205), (7, 60220), (9, 60256), (Start: 11 @60265 has 21 MA's), (15, 60319),

Gene: Rossetti_101 Start: 61909, Stop: 62079, Start Num: 10
Candidate Starts for Rossetti_101:
(2, 61819), (3, 61834), (4, 61837), (5, 61849), (Start: 10 @61909 has 14 MA's), (14, 61942),

Gene: Rumpelstiltskin_96 Start: 61165, Stop: 61335, Start Num: 10
Candidate Starts for Rumpelstiltskin_96:
(Start: 10 @61165 has 14 MA's), (14, 61198),

Gene: Samty_97 Start: 61587, Stop: 61763, Start Num: 11
Candidate Starts for Samty_97:
(6, 61527), (Start: 11 @61587 has 21 MA's), (16, 61686),

Gene: Sheng711_103 Start: 61758, Stop: 61943, Start Num: 11
Candidate Starts for Sheng711_103:
(Start: 11 @61758 has 21 MA's), (14, 61791), (17, 61887),

Gene: Silverleaf_95 Start: 59405, Stop: 59572, Start Num: 13
Candidate Starts for Silverleaf_95:
(1, 59279), (6, 59333), (7, 59348), (9, 59384), (12, 59396), (Start: 13 @59405 has 2 MA's), (15, 59459),

Gene: SoJulia_102 Start: 63096, Stop: 63266, Start Num: 10
Candidate Starts for SoJulia_102:
(Start: 10 @63096 has 14 MA's), (14, 63129),

Gene: Tyson_98 Start: 60158, Stop: 60331, Start Num: 11
Candidate Starts for Tyson_98:
(1, 60044), (6, 60098), (7, 60113), (9, 60149), (Start: 11 @60158 has 21 MA's), (15, 60212), (18, 60320),

Gene: UPIE_95 Start: 59398, Stop: 59571, Start Num: 13
Candidate Starts for UPIE_95:
(1, 59272), (7, 59341), (9, 59377), (12, 59389), (Start: 13 @59398 has 2 MA's), (15, 59452), (18, 59560),

Gene: Underpass_92 Start: 56408, Stop: 56578, Start Num: 10
Candidate Starts for Underpass_92:
(Start: 10 @56408 has 14 MA's), (14, 56441),

Gene: Wyatt2_97 Start: 59821, Stop: 59994, Start Num: 11
Candidate Starts for Wyatt2_97:
(1, 59707), (6, 59761), (7, 59776), (9, 59812), (Start: 11 @59821 has 21 MA's), (15, 59875), (18, 59983),

Gene: Zakai_101 Start: 61981, Stop: 62151, Start Num: 10
Candidate Starts for Zakai_101:
(Start: 10 @61981 has 14 MA's), (14, 62014),

Gene: Zaria_97 Start: 59297, Stop: 59470, Start Num: 11
Candidate Starts for Zaria_97:
(1, 59183), (6, 59237), (7, 59252), (9, 59288), (Start: 11 @59297 has 21 MA's), (15, 59351), (18, 59459),