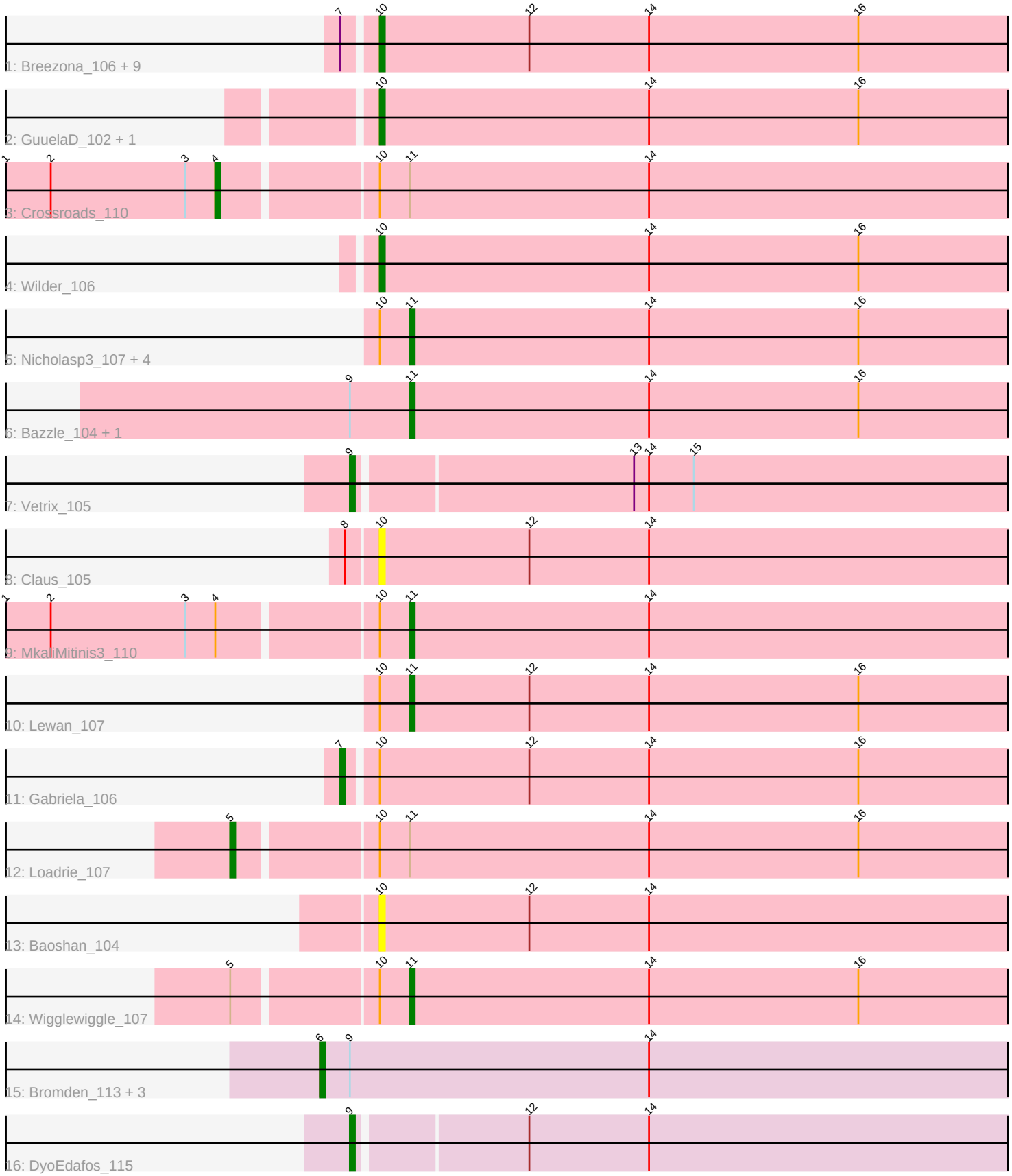
Pham 86119


1: Breezona_106 + 9
2: GuuelaD_102 + 1
3: Crossroads_110
4: Wilder_106
5: Nicholasp3_107 + 4
6: Bazzle_104 + 1
7: Vetrix_105
8: Claus_105
9: MkaliMitinis3_110
10: Lewan_107
11: Gabriela_106
12: Loadrie_107
13: Baoshan_104
14: Wigglewiggle_107
15: Bromden_113 + 3
16: DyoEdafos_115

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 86119 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86119 has 34 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Breezona_106, Itos_106, Miley16_106, DrSeegs_105, BobsGarage_105, Zakai_107, BigCheese_105, Netyap_104, Faith1_105, Winky_106
• Track 2 : GuuelaD_102, Kahlid_106
• Track 3 : Crossroads_110
• Track 4 : Wilder_106
• Track 5 : Nicholasp3_107, Finemlucis_107, ZhongYanYuan_103, LilDestine_104, Gardann_106
• Track 6 : Bazzle_104, Archie_104
• Track 7 : Vetrix_105
• Track 8 : Claus_105
• Track 9 : MkaliMitinis3_110
• Track 10 : Lewan_107
• Track 11 : Gabriela_106
• Track 12 : Loadrie_107
• Track 13 : Baoshan_104
• Track 14 : Wigglewiggle_107
• Track 15 : Bromden_113, Tourach_108, Douge_112, Chaser_111
• Track 16 : DyoEdafos_115

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

The start number called the most often in the published annotations is 10, it was called in 13 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Baoshan_104, BigCheese_105, BobsGarage_105, Breezona_106, Claus_105, DrSeegs_105, Faith1_105, GuuelaD_102, Itos_106, Kahlid_106, Miley16_106, Netyap_104, Wilder_106, Winky_106, Zakai_107,

Genes that have the "Most Annotated" start but do not call it:
• Crossroads_110, Finemlucis_107, Gabriela_106, Gardann_106, Lewan_107, LilDestine_104, Loadrie_107, MkaliMitinis3_110, Nicholasp3_107, Wigglewiggle_107, ZhongYanYuan_103,

Genes that do not have the "Most Annotated" start:
• Archie_104, Bazzle_104, Bromden_113, Chaser_111, Douge_112, DyoEdafos_115, Tourach_108, Vetrix_105,

Summary by start number:

Start 4:
• Found in 2 of 34 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 30
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Crossroads_110 (L2),

Start 5:
• Found in 2 of 34 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 30
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Loadrie_107 (L2),

Start 6:
• Found in 4 of 34 (11.8%) of genes in pham
• Manual Annotations of this start: 3 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bromden_113 (L4), Chaser_111 (L4), Douge_112 (L4), Tourach_108 (L2),

Start 7:
• Found in 11 of 34 (32.4%) of genes in pham
• Manual Annotations of this start: 1 of 30
• Called 9.1% of time when present
• Phage (with cluster) where this start called: Gabriela_106 (L2),

Start 9:
• Found in 8 of 34 (23.5%) of genes in pham
• Manual Annotations of this start: 2 of 30
• Called 25.0% of time when present
• Phage (with cluster) where this start called: DyoEdafos_115 (L4), Vetrix_105 (L2),

Start 10:
• Found in 26 of 34 (76.5%) of genes in pham
• Manual Annotations of this start: 13 of 30
• Called 57.7% of time when present
• Phage (with cluster) where this start called: Baoshan_104 (L2), BigCheese_105 (L2), BobsGarage_105 (L2), Breezona_106 (L2), Claus_105 (L2), DrSeegs_105 (L2), Faith1_105 (L2), GuuelaD_102 (L2), Itos_106 (L2), Kahlid_106 (L2), Miley16_106 (L2), Netyap_104 (L2), Wilder_106 (L2), Winky_106 (L2), Zakai_107 (L2),

Start 11:
• Found in 12 of 34 (35.3%) of genes in pham
• Manual Annotations of this start: 9 of 30
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Archie_104 (L2), Bazzle_104 (L2), Finemlucis_107 (L2), Gardann_106 (L2), Lewan_107 (L2), LilDestine_104 (L2), MkaliMitinis3_110 (L2), Nicholasp3_107 (L2), Wigglewiggle_107 (L2),

ZhongYanYuan_103 (L2),

Summary by clusters:

There are 2 clusters represented in this pham: L4, L2,

Info for manual annotations of cluster L2:
•Start number 4 was manually annotated 1 time for cluster L2.
•Start number 5 was manually annotated 1 time for cluster L2.
•Start number 6 was manually annotated 1 time for cluster L2.
•Start number 7 was manually annotated 1 time for cluster L2.
•Start number 9 was manually annotated 1 time for cluster L2.
•Start number 10 was manually annotated 13 times for cluster L2.
•Start number 11 was manually annotated 9 times for cluster L2.

Info for manual annotations of cluster L4:
•Start number 6 was manually annotated 2 times for cluster L4.
•Start number 9 was manually annotated 1 time for cluster L4.

Gene Information:

Gene: Archie_104 Start: 62719, Stop: 62853, Start Num: 11
Candidate Starts for Archie_104:
(Start: 9 @62707 has 2 MA's), (Start: 11 @62719 has 9 MA's), (14, 62767), (16, 62809),

Gene: Baoshan_104 Start: 63497, Stop: 63637, Start Num: 10
Candidate Starts for Baoshan_104:
(Start: 10 @63497 has 13 MA's), (12, 63527), (14, 63551),

Gene: Bazzle_104 Start: 63275, Stop: 63409, Start Num: 11
Candidate Starts for Bazzle_104:
(Start: 9 @63263 has 2 MA's), (Start: 11 @63275 has 9 MA's), (14, 63323), (16, 63365),

Gene: BigCheese_105 Start: 63107, Stop: 63247, Start Num: 10
Candidate Starts for BigCheese_105:
(Start: 7 @63101 has 1 MA's), (Start: 10 @63107 has 13 MA's), (12, 63137), (14, 63161), (16, 63203),

Gene: BobsGarage_105 Start: 63107, Stop: 63247, Start Num: 10
Candidate Starts for BobsGarage_105:
(Start: 7 @63101 has 1 MA's), (Start: 10 @63107 has 13 MA's), (12, 63137), (14, 63161), (16, 63203),

Gene: Breezona_106 Start: 63442, Stop: 63582, Start Num: 10
Candidate Starts for Breezona_106:
(Start: 7 @63436 has 1 MA's), (Start: 10 @63442 has 13 MA's), (12, 63472), (14, 63496), (16, 63538),

Gene: Bromden_113 Start: 65103, Stop: 65252, Start Num: 6
Candidate Starts for Bromden_113:
(Start: 6 @65103 has 3 MA's), (Start: 9 @65109 has 2 MA's), (14, 65169),

Gene: Chaser_111 Start: 63608, Stop: 63757, Start Num: 6
Candidate Starts for Chaser_111:

(Start: 6 @63608 has 3 MA's), (Start: 9 @63614 has 2 MA's), (14, 63674),

Gene: Claus_105 Start: 63054, Stop: 63194, Start Num: 10
Candidate Starts for Claus_105:
(8, 63048), (Start: 10 @63054 has 13 MA's), (12, 63084), (14, 63108),

Gene: Crossroads_110 Start: 63473, Stop: 63643, Start Num: 4
Candidate Starts for Crossroads_110:
(1, 63431), (2, 63440), (3, 63467), (Start: 4 @63473 has 1 MA's), (Start: 10 @63503 has 13 MA's), (Start: 11 @63509 has 9 MA's), (14, 63557),

Gene: Douge_112 Start: 63412, Stop: 63561, Start Num: 6
Candidate Starts for Douge_112:
(Start: 6 @63412 has 3 MA's), (Start: 9 @63418 has 2 MA's), (14, 63478),

Gene: DrSeegs_105 Start: 63442, Stop: 63582, Start Num: 10
Candidate Starts for DrSeegs_105:
(Start: 7 @63436 has 1 MA's), (Start: 10 @63442 has 13 MA's), (12, 63472), (14, 63496), (16, 63538),

Gene: DyoEdafos_115 Start: 64126, Stop: 64269, Start Num: 9
Candidate Starts for DyoEdafos_115:
(Start: 9 @64126 has 2 MA's), (12, 64159), (14, 64183),

Gene: Faith1_105 Start: 62750, Stop: 62890, Start Num: 10
Candidate Starts for Faith1_105:
(Start: 7 @62744 has 1 MA's), (Start: 10 @62750 has 13 MA's), (12, 62780), (14, 62804), (16, 62846),

Gene: Finemlucis_107 Start: 63909, Stop: 64043, Start Num: 11
Candidate Starts for Finemlucis_107:
(Start: 10 @63903 has 13 MA's), (Start: 11 @63909 has 9 MA's), (14, 63957), (16, 63999),

Gene: Gabriela_106 Start: 62090, Stop: 62236, Start Num: 7
Candidate Starts for Gabriela_106:
(Start: 7 @62090 has 1 MA's), (Start: 10 @62096 has 13 MA's), (12, 62126), (14, 62150), (16, 62192),

Gene: Gardann_106 Start: 62948, Stop: 63082, Start Num: 11
Candidate Starts for Gardann_106:
(Start: 10 @62942 has 13 MA's), (Start: 11 @62948 has 9 MA's), (14, 62996), (16, 63038),

Gene: GuuelaD_102 Start: 62883, Stop: 63023, Start Num: 10
Candidate Starts for GuuelaD_102:
(Start: 10 @62883 has 13 MA's), (14, 62937), (16, 62979),

Gene: Itos_106 Start: 61656, Stop: 61796, Start Num: 10
Candidate Starts for Itos_106:
(Start: 7 @61650 has 1 MA's), (Start: 10 @61656 has 13 MA's), (12, 61686), (14, 61710), (16, 61752),

Gene: Kahlid_106 Start: 63040, Stop: 63180, Start Num: 10
Candidate Starts for Kahlid_106:
(Start: 10 @63040 has 13 MA's), (14, 63094), (16, 63136),

Gene: Lewan_107 Start: 63008, Stop: 63142, Start Num: 11
Candidate Starts for Lewan_107:

(Start: 10 @63002 has 13 MA's), (Start: 11 @63008 has 9 MA's), (12, 63032), (14, 63056), (16, 63098),

Gene: LilDestine_104 Start: 62420, Stop: 62554, Start Num: 11
Candidate Starts for LilDestine_104:
(Start: 10 @62414 has 13 MA's), (Start: 11 @62420 has 9 MA's), (14, 62468), (16, 62510),

Gene: Loadrie_107 Start: 63505, Stop: 63672, Start Num: 5
Candidate Starts for Loadrie_107:
(Start: 5 @63505 has 1 MA's), (Start: 10 @63532 has 13 MA's), (Start: 11 @63538 has 9 MA's), (14, 63586), (16, 63628),

Gene: Miley16_106 Start: 63442, Stop: 63582, Start Num: 10
Candidate Starts for Miley16_106:
(Start: 7 @63436 has 1 MA's), (Start: 10 @63442 has 13 MA's), (12, 63472), (14, 63496), (16, 63538),

Gene: MkaliMitinis3_110 Start: 63489, Stop: 63623, Start Num: 11
Candidate Starts for MkaliMitinis3_110:
(1, 63411), (2, 63420), (3, 63447), (Start: 4 @63453 has 1 MA's), (Start: 10 @63483 has 13 MA's), (Start: 11 @63489 has 9 MA's), (14, 63537),

Gene: Netyap_104 Start: 63156, Stop: 63296, Start Num: 10
Candidate Starts for Netyap_104:
(Start: 7 @63150 has 1 MA's), (Start: 10 @63156 has 13 MA's), (12, 63186), (14, 63210), (16, 63252),

Gene: Nicholasp3_107 Start: 62948, Stop: 63082, Start Num: 11
Candidate Starts for Nicholasp3_107:
(Start: 10 @62942 has 13 MA's), (Start: 11 @62948 has 9 MA's), (14, 62996), (16, 63038),

Gene: Tourach_108 Start: 64132, Stop: 64284, Start Num: 6
Candidate Starts for Tourach_108:
(Start: 6 @64132 has 3 MA's), (Start: 9 @64138 has 2 MA's), (14, 64198),

Gene: Vetrix_105 Start: 63218, Stop: 63361, Start Num: 9
Candidate Starts for Vetrix_105:
(Start: 9 @63218 has 2 MA's), (13, 63272), (14, 63275), (15, 63284),

Gene: Wigglewiggle_107 Start: 63134, Stop: 63268, Start Num: 11
Candidate Starts for Wigglewiggle_107:
(Start: 5 @63101 has 1 MA's), (Start: 10 @63128 has 13 MA's), (Start: 11 @63134 has 9 MA's), (14, 63182), (16, 63224),

Gene: Wilder_106 Start: 62894, Stop: 63034, Start Num: 10
Candidate Starts for Wilder_106:
(Start: 10 @62894 has 13 MA's), (14, 62948), (16, 62990),

Gene: Winky_106 Start: 63442, Stop: 63582, Start Num: 10
Candidate Starts for Winky_106:
(Start: 7 @63436 has 1 MA's), (Start: 10 @63442 has 13 MA's), (12, 63472), (14, 63496), (16, 63538),

Gene: Zakai_107 Start: 63152, Stop: 63292, Start Num: 10
Candidate Starts for Zakai_107:
(Start: 7 @63146 has 1 MA's), (Start: 10 @63152 has 13 MA's), (12, 63182), (14, 63206), (16, 63248),

Gene: ZhongYanYuan_103 Start: 62992, Stop: 63126, Start Num: 11
Candidate Starts for ZhongYanYuan_103:
(Start: 10 @62986 has 13 MA's), (Start: 11 @62992 has 9 MA's), (14, 63040), (16, 63082),