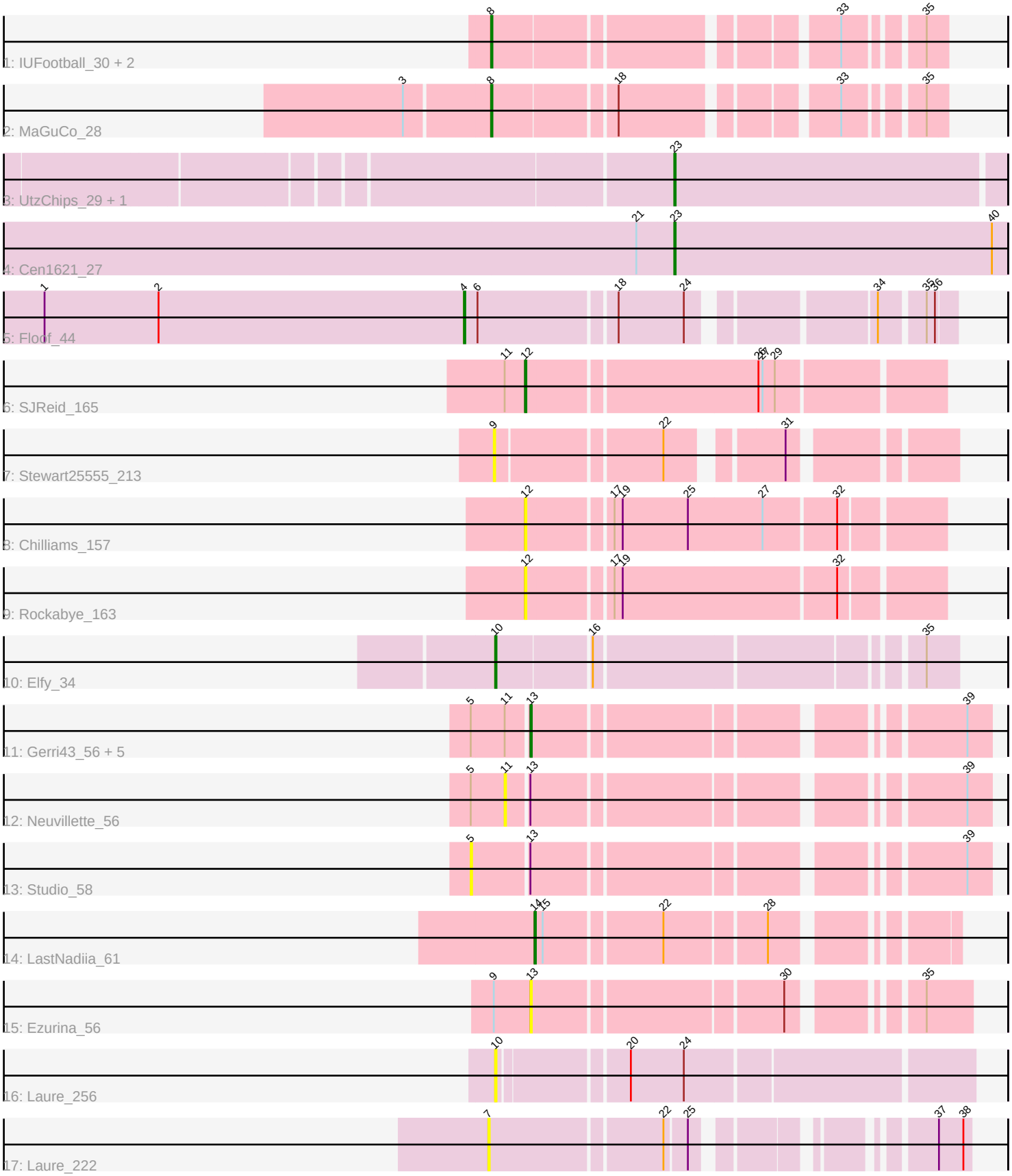
Pham 309134


1: IUFootball_30 + 2
2: MaGuCo_28
3: UtzChips_29 + 1
4: Cen1621_27
5: Floof_44
6: SJReid_165
7: Stewart25555_213
8: Chilliams_157
9: Rockabye_163
10: Elfy_34
11: Gerri43_56 + 5
12: Neuvillette_56
13: Studio_58
14: LastNadiia_61
15: Ezurina_56
16: Laure_256
17: Laure_222

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 309134 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309134 has 25 members, 11 are drafts.

Phages represented in each track:
• Track 1 : IUFootball_30, Liebe_30, Maureen_30
• Track 2 : MaGuCo_28
• Track 3 : UtzChips_29, Barnstormer_29
• Track 4 : Cen1621_27
• Track 5 : Floof_44
• Track 6 : SJReid_165
• Track 7 : Stewart25555_213
• Track 8 : Chilliams_157
• Track 9 : Rockabye_163
• Track 10 : Elfy_34
• Track 11 : Gerri43_56, Roberts_57, ChipsNGuac_57, ChamoyPickle_58, AnnabelLee_58, CardboardBox_57
• Track 12 : Neuvillette_56
• Track 13 : Studio_58
• Track 14 : LastNadiia_61
• Track 15 : Ezurina_56
• Track 16 : Laure_256
• Track 17 : Laure_222

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

The start number called the most often in the published annotations is 13, it was called in 4 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AnnabelLee_58, CardboardBox_57, ChamoyPickle_58, ChipsNGuac_57, Ezurina_56, Gerri43_56, Roberts_57,

Genes that have the "Most Annotated" start but do not call it:
• Neuvillette_56, Studio_58,

Genes that do not have the "Most Annotated" start:
• Barnstormer_29, Cen1621_27, Chilliams_157, Elfy_34, Floof_44, IUFootball_30, LastNadiia_61, Laure_222, Laure_256, Liebe_30, MaGuCo_28, Maureen_30,

Rockabye_163, SJReid_165, Stewart25555_213, UtzChips_29,

Summary by start number:

Start 4:
• Found in 1 of 25 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Floof_44 (EH),

Start 5:
• Found in 8 of 25 (32.0%) of genes in pham
• No Manual Annotations of this start.
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Studio_58 (FR),

Start 7:
• Found in 1 of 25 (4.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Laure_222 (UNK),

Start 8:
• Found in 4 of 25 (16.0%) of genes in pham
• Manual Annotations of this start: 3 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: IUFootball_30 (AZ2), Liebe_30 (AZ2), MaGuCo_28 (AZ2), Maureen_30 (AZ2),

Start 9:
• Found in 2 of 25 (8.0%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Stewart25555_213 (FC),

Start 10:
• Found in 2 of 25 (8.0%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Elfy_34 (FP), Laure_256 (UNK),

Start 11:
• Found in 8 of 25 (32.0%) of genes in pham
• No Manual Annotations of this start.
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Neuvillette_56 (FR),

Start 12:
• Found in 3 of 25 (12.0%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chilliams_157 (FC), Rockabye_163 (FC), SJReid_165 (FC),

Start 13:
• Found in 9 of 25 (36.0%) of genes in pham
• Manual Annotations of this start: 4 of 14
• Called 77.8% of time when present
• Phage (with cluster) where this start called: AnnabelLee_58 (FR), CardboardBox_57 (FR), ChamoyPickle_58 (FR), ChipsNGuac_57 (FR), Ezurina_56 (FR), Gerri43_56 (FR), Roberts_57 (FR),

Start 14:
• Found in 1 of 25 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LastNadiia_61 (FR),

Start 23:
• Found in 3 of 25 (12.0%) of genes in pham
• Manual Annotations of this start: 3 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Barnstormer_29 (EH), Cen1621_27 (EH), UtzChips_29 (EH),

Summary by clusters:

There are 6 clusters represented in this pham: FP, FR, EH, FC, AZ2, UNK,

Info for manual annotations of cluster AZ2:
•Start number 8 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster EH:
•Start number 4 was manually annotated 1 time for cluster EH.
•Start number 23 was manually annotated 3 times for cluster EH.

Info for manual annotations of cluster FC:
•Start number 12 was manually annotated 1 time for cluster FC.

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

Info for manual annotations of cluster FR:
•Start number 13 was manually annotated 4 times for cluster FR.
•Start number 14 was manually annotated 1 time for cluster FR.

Gene Information:

Gene: AnnabelLee_58 Start: 34806, Stop: 34513, Start Num: 13
Candidate Starts for AnnabelLee_58:
(5, 34845), (11, 34821), (Start: 13 @34806 has 4 MA's), (39, 34530),

Gene: Barnstormer_29 Start: 22719, Stop: 22958, Start Num: 23

Candidate Starts for Barnstormer_29:
(Start: 23 @22719 has 3 MA's),

Gene: CardboardBox_57 Start: 34809, Stop: 34516, Start Num: 13
Candidate Starts for CardboardBox_57:
(5, 34848), (11, 34824), (Start: 13 @34809 has 4 MA's), (39, 34533),

Gene: Cen1621_27 Start: 21303, Stop: 21548, Start Num: 23
Candidate Starts for Cen1621_27:
(21, 21276), (Start: 23 @21303 has 3 MA's), (40, 21537),

Gene: ChamoyPickle_58 Start: 35349, Stop: 35056, Start Num: 13
Candidate Starts for ChamoyPickle_58:
(5, 35388), (11, 35364), (Start: 13 @35349 has 4 MA's), (39, 35073),

Gene: Chilliams_157 Start: 97838, Stop: 98125, Start Num: 12
Candidate Starts for Chilliams_157:
(Start: 12 @97838 has 1 MA's), (17, 97895), (19, 97901), (25, 97949), (27, 98003), (32, 98054),

Gene: ChipsNGuac_57 Start: 34809, Stop: 34516, Start Num: 13
Candidate Starts for ChipsNGuac_57:
(5, 34848), (11, 34824), (Start: 13 @34809 has 4 MA's), (39, 34533),

Gene: Elfy_34 Start: 24565, Stop: 24873, Start Num: 10
Candidate Starts for Elfy_34:
(Start: 10 @24565 has 1 MA's), (16, 24631), (35, 24850),

Gene: Ezurina_56 Start: 35708, Stop: 35430, Start Num: 13
Candidate Starts for Ezurina_56:
(9, 35735), (Start: 13 @35708 has 4 MA's), (30, 35537), (35, 35462),

Gene: Floof_44 Start: 27937, Stop: 28257, Start Num: 4
Candidate Starts for Floof_44:
(1, 27628), (2, 27712), (Start: 4 @27937 has 1 MA's), (6, 27946), (18, 28042), (24, 28090), (34, 28207), (35, 28237), (36, 28243),

Gene: Gerri43_56 Start: 34809, Stop: 34516, Start Num: 13
Candidate Starts for Gerri43_56:
(5, 34848), (11, 34824), (Start: 13 @34809 has 4 MA's), (39, 34533),

Gene: IUFootball_30 Start: 24030, Stop: 24314, Start Num: 8
Candidate Starts for IUFootball_30:
(Start: 8 @24030 has 3 MA's), (33, 24252), (35, 24300),

Gene: LastNadiia_61 Start: 38524, Stop: 38258, Start Num: 14
Candidate Starts for LastNadiia_61:
(Start: 14 @38524 has 1 MA's), (15, 38518), (22, 38437), (28, 38368),

Gene: Laure_256 Start: 146563, Stop: 146889, Start Num: 10
Candidate Starts for Laure_256:
(Start: 10 @146563 has 1 MA's), (20, 146650), (24, 146689),

Gene: Laure_222 Start: 136212, Stop: 136502, Start Num: 7

Candidate Starts for Laure_222:
(7, 136212), (22, 136332), (25, 136347), (37, 136479), (38, 136497),

Gene: Liebe_30 Start: 24030, Stop: 24314, Start Num: 8
Candidate Starts for Liebe_30:
(Start: 8 @24030 has 3 MA's), (33, 24252), (35, 24300),

Gene: MaGuCo_28 Start: 22831, Stop: 23115, Start Num: 8
Candidate Starts for MaGuCo_28:
(3, 22771), (Start: 8 @22831 has 3 MA's), (18, 22915), (33, 23053), (35, 23101),

Gene: Maureen_30 Start: 24030, Stop: 24314, Start Num: 8
Candidate Starts for Maureen_30:
(Start: 8 @24030 has 3 MA's), (33, 24252), (35, 24300),

Gene: Neuvillette_56 Start: 34824, Stop: 34516, Start Num: 11
Candidate Starts for Neuvillette_56:
(5, 34848), (11, 34824), (Start: 13 @34809 has 4 MA's), (39, 34533),

Gene: Roberts_57 Start: 34809, Stop: 34516, Start Num: 13
Candidate Starts for Roberts_57:
(5, 34848), (11, 34824), (Start: 13 @34809 has 4 MA's), (39, 34533),

Gene: Rockabye_163 Start: 99411, Stop: 99698, Start Num: 12
Candidate Starts for Rockabye_163:
(Start: 12 @99411 has 1 MA's), (17, 99468), (19, 99474), (32, 99627),

Gene: SJReid_165 Start: 98433, Stop: 98723, Start Num: 12
Candidate Starts for SJReid_165:
(11, 98418), (Start: 12 @98433 has 1 MA's), (26, 98595), (27, 98598), (29, 98607),

Gene: Stewart25555_213 Start: 148615, Stop: 148902, Start Num: 9
Candidate Starts for Stewart25555_213:
(9, 148615), (22, 148729), (31, 148798),

Gene: Studio_58 Start: 36038, Stop: 35706, Start Num: 5
Candidate Starts for Studio_58:
(5, 36038), (Start: 13 @35999 has 4 MA's), (39, 35723),

Gene: UtzChips_29 Start: 22704, Stop: 22943, Start Num: 23
Candidate Starts for UtzChips_29:
(Start: 23 @22704 has 3 MA's),