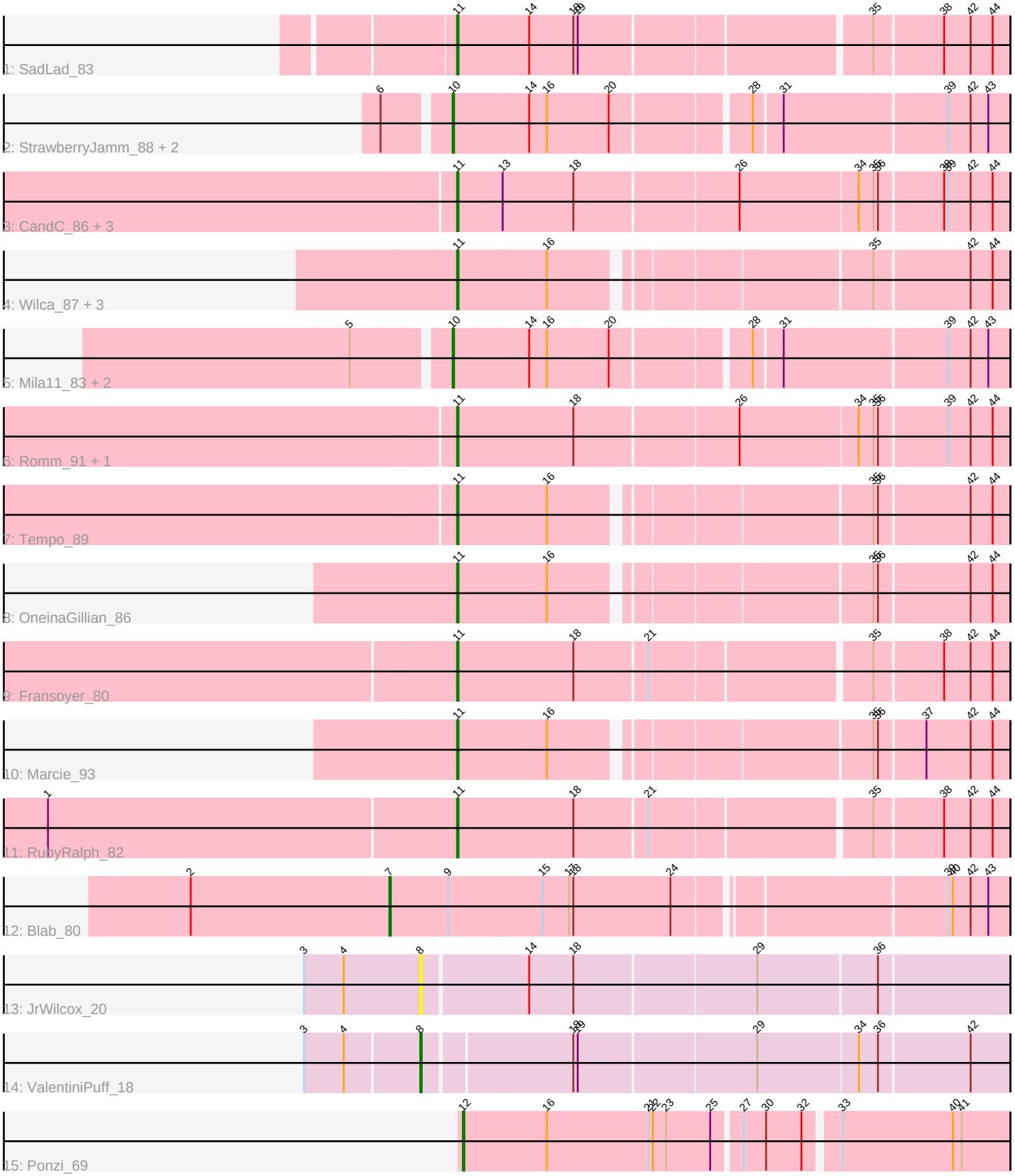
Pham 347955


1: SadLad_83
2: StrawberryJamm_88 + 2
3: CandC_86 + 3
4: Wilca_87 + 3
5: Mila11_83 + 2
6: Romm_91 + 1
7: Tempo_89
8: OneinaGillian_86
9: Fransoyer_80
10: Marcie_93
11: RubyRalph_82
12: Blab_80
13: JrWilcox_20
14: ValentiniPuff_18
15: Ponzi_69

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 347955 Report

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

Pham number 347955 has 26 members, 3 are drafts.

Phages represented in each track:
• Track 1 : SadLad_83
• Track 2 : StrawberryJamm_88, Grassboy_87, Kyva_87
• Track 3 : CandC_86, KillerQueen_90, Fregley_89, Kelcole_87
• Track 4 : Wilca_87, Pepe25_85, Spiderpig_88, BirdInFrench_87
• Track 5 : Mila11_83, MorillMayhem_82, BaconCheese_84
• Track 6 : Romm_91, RobinRose_91
• Track 7 : Tempo_89
• Track 8 : OneinaGillian_86
• Track 9 : Fransoyer_80
• Track 10 : Marcie_93
• Track 11 : RubyRalph_82
• Track 12 : Blab_80
• Track 13 : JrWilcox_20
• Track 14 : ValentiniPuff_18
• Track 15 : Ponzi_69

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 14 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BirdInFrench_87, CandC_86, Fransoyer_80, Fregley_89, Kelcole_87, KillerQueen_90, Marcie_93, OneinaGillian_86, Pepe25_85, RobinRose_91, Romm_91, RubyRalph_82, SadLad_83, Spiderpig_88, Tempo_89, Wilca_87,

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

Genes that do not have the "Most Annotated" start:
• BaconCheese_84, Blab_80, Grassboy_87, JrWilcox_20, Kyva_87, Mila11_83, MorillMayhem_82, Ponzi_69, StrawberryJamm_88, ValentiniPuff_18,

Summary by start number:

Start 7:
• Found in 1 of 26 (3.8%) 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: Blab_80 (EG),

Start 8:
• Found in 2 of 26 (7.7%) 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: JrWilcox_20 (GL), ValentiniPuff_18 (GL),

Start 10:
• Found in 6 of 26 (23.1%) of genes in pham
• Manual Annotations of this start: 6 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BaconCheese_84 (EG), Grassboy_87 (EG), Kyva_87 (EG), Mila11_83 (EG), MorillMayhem_82 (EG), StrawberryJamm_88 (EG),

Start 11:
• Found in 16 of 26 (61.5%) of genes in pham
• Manual Annotations of this start: 14 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BirdInFrench_87 (EG), CandC_86 (EG), Fransoyer_80 (EG), Fregley_89 (EG), Kelcole_87 (EG), KillerQueen_90 (EG), Marcie_93 (EG), OneinaGillian_86 (EG), Pepe25_85 (EG), RobinRose_91 (EG), Romm_91 (EG), RubyRalph_82 (EG), SadLad_83 (EG), Spiderpig_88 (EG), Tempo_89 (EG), Wilca_87 (EG),

Start 12:
• Found in 1 of 26 (3.8%) 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: Ponzi_69 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: EG, GL, singleton,

Info for manual annotations of cluster EG:
•Start number 7 was manually annotated 1 time for cluster EG.
•Start number 10 was manually annotated 6 times for cluster EG.
•Start number 11 was manually annotated 14 times for cluster EG.

Info for manual annotations of cluster GL:
•Start number 8 was manually annotated 1 time for cluster GL.

Gene Information:

Gene: BaconCheese_84 Start: 54526, Stop: 54167, Start Num: 10
Candidate Starts for BaconCheese_84:
(5, 54586), (Start: 10 @54526 has 6 MA's), (14, 54475), (16, 54463), (20, 54421), (28, 54334), (31, 54316), (39, 54208), (42, 54193), (43, 54181),

Gene: BirdInFrench_87 Start: 53968, Stop: 53621, Start Num: 11
Candidate Starts for BirdInFrench_87:
(Start: 11 @53968 has 14 MA's), (16, 53908), (35, 53710), (42, 53647), (44, 53632),

Gene: Blab_80 Start: 53211, Stop: 52810, Start Num: 7
Candidate Starts for Blab_80:
(2, 53346), (Start: 7 @53211 has 1 MA's), (9, 53172), (15, 53109), (17, 53091), (18, 53088), (24, 53022), (39, 52851), (40, 52848), (42, 52836), (43, 52824),

Gene: CandC_86 Start: 53620, Stop: 53258, Start Num: 11
Candidate Starts for CandC_86:
(Start: 11 @53620 has 14 MA's), (13, 53590), (18, 53542), (26, 53434), (34, 53356), (35, 53347), (36, 53344), (38, 53302), (39, 53299), (42, 53284), (44, 53269),

Gene: Fransoyer_80 Start: 52986, Stop: 52630, Start Num: 11
Candidate Starts for Fransoyer_80:
(Start: 11 @52986 has 14 MA's), (18, 52908), (21, 52860), (35, 52719), (38, 52674), (42, 52656), (44, 52641),

Gene: Fregley_89 Start: 53969, Stop: 53607, Start Num: 11
Candidate Starts for Fregley_89:
(Start: 11 @53969 has 14 MA's), (13, 53939), (18, 53891), (26, 53783), (34, 53705), (35, 53696), (36, 53693), (38, 53651), (39, 53648), (42, 53633), (44, 53618),

Gene: Grassboy_87 Start: 53929, Stop: 53570, Start Num: 10
Candidate Starts for Grassboy_87:
(6, 53968), (Start: 10 @53929 has 6 MA's), (14, 53878), (16, 53866), (20, 53824), (28, 53737), (31, 53719), (39, 53611), (42, 53596), (43, 53584),

Gene: JrWilcox_20 Start: 13408, Stop: 13791, Start Num: 8
Candidate Starts for JrWilcox_20:
(3, 13330), (4, 13357), (Start: 8 @13408 has 1 MA's), (14, 13477), (18, 13507), (29, 13627), (36, 13705),

Gene: Kelcole_87 Start: 54192, Stop: 53830, Start Num: 11
Candidate Starts for Kelcole_87:
(Start: 11 @54192 has 14 MA's), (13, 54162), (18, 54114), (26, 54006), (34, 53928), (35, 53919), (36, 53916), (38, 53874), (39, 53871), (42, 53856), (44, 53841),

Gene: KillerQueen_90 Start: 54111, Stop: 53749, Start Num: 11
Candidate Starts for KillerQueen_90:
(Start: 11 @54111 has 14 MA's), (13, 54081), (18, 54033), (26, 53925), (34, 53847), (35, 53838), (36, 53835), (38, 53793), (39, 53790), (42, 53775), (44, 53760),

Gene: Kyva_87 Start: 53953, Stop: 53594, Start Num: 10
Candidate Starts for Kyva_87:
(6, 53992), (Start: 10 @53953 has 6 MA's), (14, 53902), (16, 53890), (20, 53848), (28, 53761), (31, 53743), (39, 53635), (42, 53620), (43, 53608),

Gene: Marcie_93 Start: 54835, Stop: 54488, Start Num: 11
Candidate Starts for Marcie_93:
(Start: 11 @54835 has 14 MA's), (16, 54775), (35, 54577), (36, 54574), (37, 54544), (42, 54514), (44, 54499),

Gene: Mila11_83 Start: 54577, Stop: 54218, Start Num: 10
Candidate Starts for Mila11_83:
(5, 54637), (Start: 10 @54577 has 6 MA's), (14, 54526), (16, 54514), (20, 54472), (28, 54385), (31, 54367), (39, 54259), (42, 54244), (43, 54232),

Gene: MorillMayhem_82 Start: 53416, Stop: 53057, Start Num: 10
Candidate Starts for MorillMayhem_82:
(5, 53476), (Start: 10 @53416 has 6 MA's), (14, 53365), (16, 53353), (20, 53311), (28, 53224), (31, 53206), (39, 53098), (42, 53083), (43, 53071),

Gene: OneinaGillian_86 Start: 53504, Stop: 53157, Start Num: 11
Candidate Starts for OneinaGillian_86:
(Start: 11 @53504 has 14 MA's), (16, 53444), (35, 53246), (36, 53243), (42, 53183), (44, 53168),

Gene: Pepe25_85 Start: 52887, Stop: 52540, Start Num: 11
Candidate Starts for Pepe25_85:
(Start: 11 @52887 has 14 MA's), (16, 52827), (35, 52629), (42, 52566), (44, 52551),

Gene: Ponzi_69 Start: 48675, Stop: 48316, Start Num: 12
Candidate Starts for Ponzi_69:
(Start: 12 @48675 has 1 MA's), (16, 48618), (21, 48549), (22, 48546), (23, 48537), (25, 48507), (27, 48489), (30, 48474), (32, 48450), (33, 48429), (40, 48354), (41, 48348),

Gene: RobinRose_91 Start: 54621, Stop: 54259, Start Num: 11
Candidate Starts for RobinRose_91:
(Start: 11 @54621 has 14 MA's), (18, 54543), (26, 54435), (34, 54357), (35, 54348), (36, 54345), (39, 54300), (42, 54285), (44, 54270),

Gene: Romm_91 Start: 54618, Stop: 54256, Start Num: 11
Candidate Starts for Romm_91:
(Start: 11 @54618 has 14 MA's), (18, 54540), (26, 54432), (34, 54354), (35, 54345), (36, 54342), (39, 54297), (42, 54282), (44, 54267),

Gene: RubyRalph_82 Start: 53011, Stop: 52655, Start Num: 11
Candidate Starts for RubyRalph_82:
(1, 53284), (Start: 11 @53011 has 14 MA's), (18, 52933), (21, 52885), (35, 52744), (38, 52699), (42, 52681), (44, 52666),

Gene: SadLad_83 Start: 53917, Stop: 53561, Start Num: 11
Candidate Starts for SadLad_83:
(Start: 11 @53917 has 14 MA's), (14, 53869), (18, 53839), (19, 53836), (35, 53650), (38, 53605), (42, 53587), (44, 53572),

Gene: Spiderpig_88 Start: 54154, Stop: 53807, Start Num: 11
Candidate Starts for Spiderpig_88:
(Start: 11 @54154 has 14 MA's), (16, 54094), (35, 53896), (42, 53833), (44, 53818),

Gene: StrawberryJamm_88 Start: 53103, Stop: 52744, Start Num: 10
Candidate Starts for StrawberryJamm_88:
(6, 53142), (Start: 10 @53103 has 6 MA's), (14, 53052), (16, 53040), (20, 52998), (28, 52911), (31, 52893), (39, 52785), (42, 52770), (43, 52758),

Gene: Tempo_89 Start: 54301, Stop: 53954, Start Num: 11
Candidate Starts for Tempo_89:
(Start: 11 @54301 has 14 MA's), (16, 54241), (35, 54043), (36, 54040), (42, 53980), (44, 53965),

Gene: ValentiniPuff_18 Start: 12223, Stop: 12603, Start Num: 8
Candidate Starts for ValentiniPuff_18:
(3, 12148), (4, 12175), (Start: 8 @12223 has 1 MA's), (18, 12319), (19, 12322), (29, 12439), (34, 12505), (36, 12517), (42, 12577),

Gene: Wilca_87 Start: 53968, Stop: 53621, Start Num: 11
Candidate Starts for Wilca_87:
(Start: 11 @53968 has 14 MA's), (16, 53908), (35, 53710), (42, 53647), (44, 53632),