Pham 203261

1: ReginaGlobina_72 + 2

2: Racecar_74 + 3

3: Chilliams_70

4: WaddleDee_66 + 2

5: Ellewin_64

6: GoldenEssence_62

7: SJReid_79

8: Rockabye_75

9: Phrampa_67

10: Patbob_73

11: Dodo_75 + 1
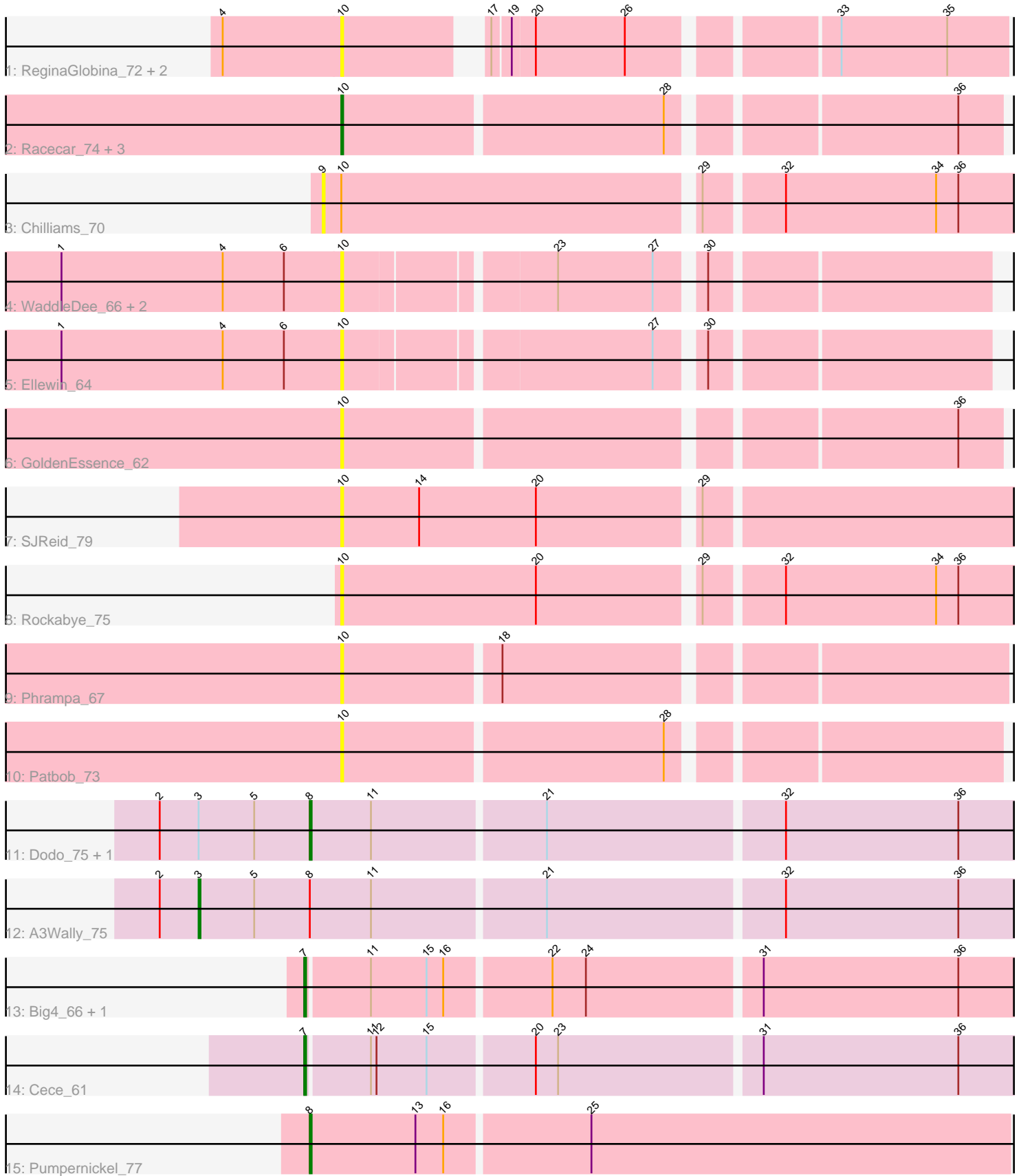
12: A3Wally_75

13: Big4_66 + 1

14: Cece_61

15: Pumpernickel_77

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 203261 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203261 has 24 members, 16 are drafts.

Phages represented in each track:
• Track 1 : ReginaGlobina_72, Atuin_70, LeoJr_72
• Track 2 : Racecar_74, Talia1610_73, Bloom_77, Mimi_80
• Track 3 : Chilliams_70
• Track 4 : WaddleDee_66, DunneganBoMo_66, KSunshine22_67
• Track 5 : Ellewin_64
• Track 6 : GoldenEssence_62
• Track 7 : SJReid_79
• Track 8 : Rockabye_75
• Track 9 : Phrampa_67
• Track 10 : Patbob_73
• Track 11 : Dodo_75, PauloDiaboli_75
• Track 12 : A3Wally_75
• Track 13 : Big4_66, Zooman_62
• Track 14 : Cece_61
• Track 15 : Pumpernickel_77

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

The start number called the most often in the published annotations is 7, it was called in 3 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Big4_66, Cece_61, Zooman_62,

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

Genes that do not have the "Most Annotated" start:
• A3Wally_75, Atuin_70, Bloom_77, Chilliams_70, Dodo_75, DunneganBoMo_66, Ellewin_64, GoldenEssence_62, KSunshine22_67, LeoJr_72, Mimi_80, Patbob_73, PauloDiaboli_75, Phrampa_67, Pumpernickel_77, Racecar_74, ReginaGlobina_72, Rockabye_75, SJReid_79, Talia1610_73, WaddleDee_66,

Summary by start number:

Start 3:
• Found in 3 of 24 (12.5%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 33.3% of time when present
• Phage (with cluster) where this start called: A3Wally_75 (GD1),

Start 7:
• Found in 3 of 24 (12.5%) of genes in pham
• Manual Annotations of this start: 3 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Big4_66 (GD2), Cece_61 (GD3),
Zooman_62 (GD2),

Start 8:
• Found in 4 of 24 (16.7%) of genes in pham
• Manual Annotations of this start: 2 of 8
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Dodo_75 (GD1), PauloDiaboli_75 (GD1),
Pumpernickel_77 (GD4),

Start 9:
• Found in 1 of 24 (4.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chilliams_70 (FC),

Start 10:
• Found in 17 of 24 (70.8%) of genes in pham
• Manual Annotations of this start: 2 of 8
• Called 94.1% of time when present
• Phage (with cluster) where this start called: Atuin_70 (FC), Bloom_77 (FC),
DunneganBoMo_66 (FC), Ellewin_64 (FC), GoldenEssence_62 (FC),
KSunshine22_67 (FC), LeoJr_72 (FC), Mimi_80 (FC), Patbob_73 (FC), Phrampa_67
(FC), Racecar_74 (FC), ReginaGlobina_72 (FC), Rockabye_75 (FC), SJReid_79
(FC), Talia1610_73 (FC), WaddleDee_66 (FC),

Summary by clusters:

There are 5 clusters represented in this pham: GD3, GD1, GD2, FC, GD4,

Info for manual annotations of cluster FC:
•Start number 10 was manually annotated 2 times for cluster FC.

Info for manual annotations of cluster GD1:
•Start number 3 was manually annotated 1 time for cluster GD1.
•Start number 8 was manually annotated 1 time for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 7 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 7 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 8 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_75 Start: 26771, Stop: 27208, Start Num: 3
Candidate Starts for A3Wally_75:
(2, 26750), (Start: 3 @26771 has 1 MA's), (5, 26801), (Start: 8 @26831 has 2 MA's), (11, 26864), (21, 26954), (32, 27077), (36, 27170),

Gene: Atuin_70 Start: 30205, Stop: 30525, Start Num: 10
Candidate Starts for Atuin_70:
(4, 30145), (Start: 10 @30205 has 2 MA's), (17, 30268), (19, 30277), (20, 30289), (26, 30337), (33, 30436), (35, 30493),

Gene: Big4_66 Start: 26811, Stop: 27188, Start Num: 7
Candidate Starts for Big4_66:
(Start: 7 @26811 has 3 MA's), (11, 26844), (15, 26874), (16, 26883), (22, 26937), (24, 26955), (31, 27045), (36, 27150),

Gene: Bloom_77 Start: 32827, Stop: 33159, Start Num: 10
Candidate Starts for Bloom_77:
(Start: 10 @32827 has 2 MA's), (28, 32995), (36, 33136),

Gene: Cece_61 Start: 25327, Stop: 25704, Start Num: 7
Candidate Starts for Cece_61:
(Start: 7 @25327 has 3 MA's), (11, 25360), (12, 25363), (15, 25390), (20, 25444), (23, 25456), (31, 25561), (36, 25666),

Gene: Chilliams_70 Start: 33191, Stop: 33550, Start Num: 9
Candidate Starts for Chilliams_70:
(9, 33191), (Start: 10 @33200 has 2 MA's), (29, 33386), (32, 33425), (34, 33506), (36, 33518),

Gene: Dodo_75 Start: 27153, Stop: 27530, Start Num: 8
Candidate Starts for Dodo_75:
(2, 27072), (Start: 3 @27093 has 1 MA's), (5, 27123), (Start: 8 @27153 has 2 MA's), (11, 27186), (21, 27276), (32, 27399), (36, 27492),

Gene: DunneganBoMo_66 Start: 26966, Stop: 27286, Start Num: 10
Candidate Starts for DunneganBoMo_66:
(1, 26819), (4, 26906), (6, 26939), (Start: 10 @26966 has 2 MA's), (23, 27071), (27, 27122), (30, 27143),

Gene: Ellewin_64 Start: 26693, Stop: 27013, Start Num: 10
Candidate Starts for Ellewin_64:
(1, 26546), (4, 26633), (6, 26666), (Start: 10 @26693 has 2 MA's), (27, 26849), (30, 26870),

Gene: GoldenEssence_62 Start: 26620, Stop: 26952, Start Num: 10
Candidate Starts for GoldenEssence_62:
(Start: 10 @26620 has 2 MA's), (36, 26929),

Gene: KSunshine22_67 Start: 28233, Stop: 28553, Start Num: 10
Candidate Starts for KSunshine22_67:
(1, 28086), (4, 28173), (6, 28206), (Start: 10 @28233 has 2 MA's), (23, 28338), (27, 28389), (30, 28410),

Gene: LeoJr_72 Start: 30345, Stop: 30665, Start Num: 10
Candidate Starts for LeoJr_72:
(4, 30285), (Start: 10 @30345 has 2 MA's), (17, 30408), (19, 30417), (20, 30429), (26, 30477), (33, 30576), (35, 30633),

Gene: Mimi_80 Start: 32174, Stop: 32506, Start Num: 10
Candidate Starts for Mimi_80:
(Start: 10 @32174 has 2 MA's), (28, 32342), (36, 32483),

Gene: Patbob_73 Start: 32467, Stop: 32799, Start Num: 10
Candidate Starts for Patbob_73:
(Start: 10 @32467 has 2 MA's), (28, 32635),

Gene: PauloDiaboli_75 Start: 26188, Stop: 26565, Start Num: 8
Candidate Starts for PauloDiaboli_75:
(2, 26107), (Start: 3 @26128 has 1 MA's), (5, 26158), (Start: 8 @26188 has 2 MA's), (11, 26221), (21, 26311), (32, 26434), (36, 26527),

Gene: Phrampa_67 Start: 29494, Stop: 29829, Start Num: 10
Candidate Starts for Phrampa_67:
(Start: 10 @29494 has 2 MA's), (18, 29575),

Gene: Pumpernickel_77 Start: 30117, Stop: 30497, Start Num: 8
Candidate Starts for Pumpernickel_77:
(Start: 8 @30117 has 2 MA's), (13, 30174), (16, 30189), (25, 30264),

Gene: Racecar_74 Start: 32827, Stop: 33159, Start Num: 10
Candidate Starts for Racecar_74:
(Start: 10 @32827 has 2 MA's), (28, 32995), (36, 33136),

Gene: ReginaGlobina_72 Start: 30902, Stop: 31222, Start Num: 10
Candidate Starts for ReginaGlobina_72:
(4, 30842), (Start: 10 @30902 has 2 MA's), (17, 30965), (19, 30974), (20, 30986), (26, 31034), (33, 31133), (35, 31190),

Gene: Rockabye_75 Start: 33555, Stop: 33905, Start Num: 10
Candidate Starts for Rockabye_75:
(Start: 10 @33555 has 2 MA's), (20, 33660), (29, 33741), (32, 33780), (34, 33861), (36, 33873),

Gene: SJReid_79 Start: 34033, Stop: 34383, Start Num: 10
Candidate Starts for SJReid_79:
(Start: 10 @34033 has 2 MA's), (14, 34075), (20, 34138), (29, 34219),

Gene: Talia1610_73 Start: 32192, Stop: 32524, Start Num: 10
Candidate Starts for Talia1610_73:
(Start: 10 @32192 has 2 MA's), (28, 32360), (36, 32501),

Gene: WaddleDee_66 Start: 26818, Stop: 27138, Start Num: 10
Candidate Starts for WaddleDee_66:
(1, 26671), (4, 26758), (6, 26791), (Start: 10 @26818 has 2 MA's), (23, 26923), (27, 26974), (30, 26995),

Gene: Zooman_62 Start: 25479, Stop: 25856, Start Num: 7
Candidate Starts for Zooman_62:
(Start: 7 @25479 has 3 MA's), (11, 25512), (15, 25542), (16, 25551), (22, 25605), (24, 25623), (31, 25713), (36, 25818),