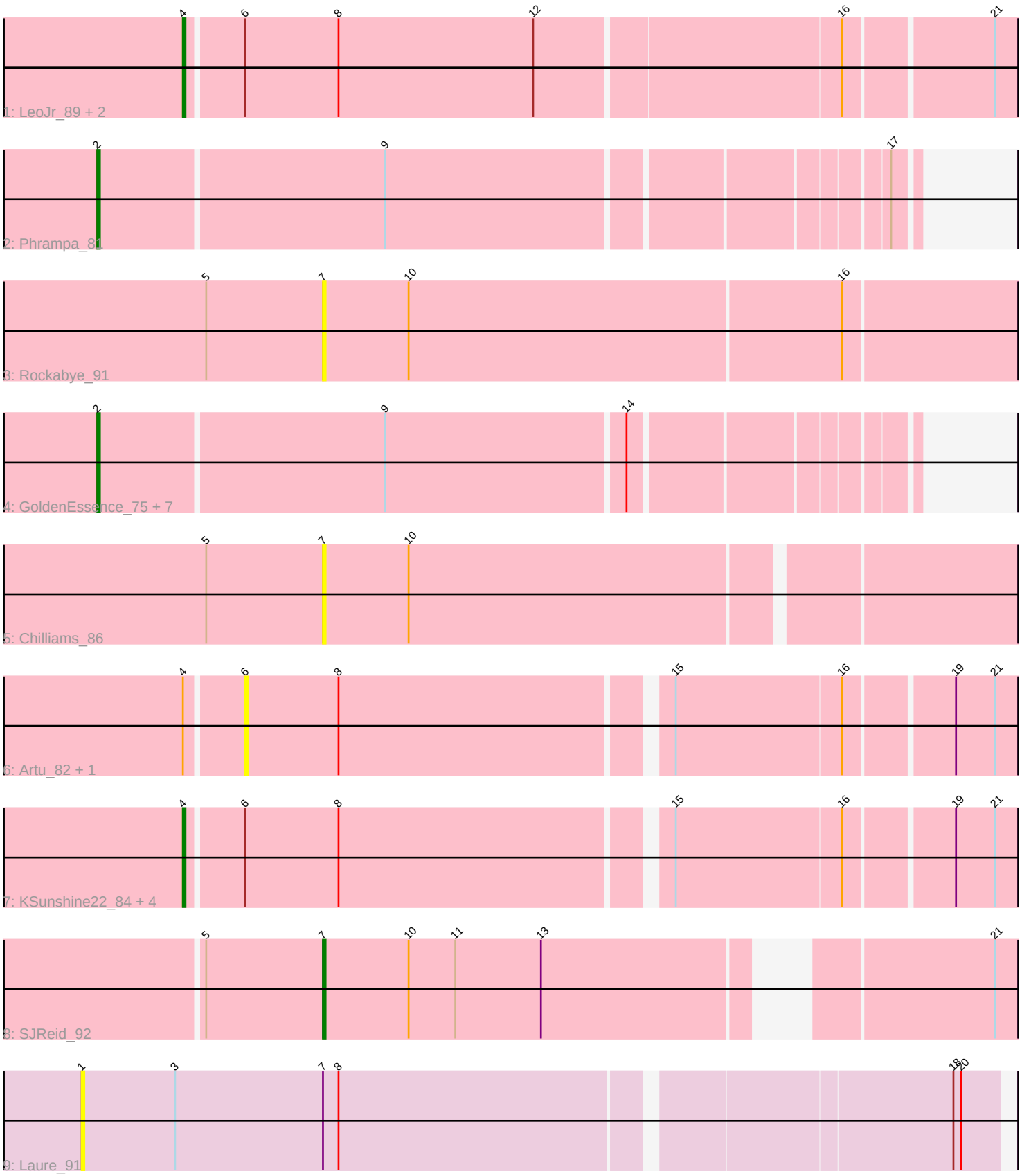
Pham 291505


4
6
8
12
16
21
1: LeoJr_89 + 2
2
9
17
2: Phrampa_81
5
7
10
16
3: Rockabye_91
2
9
14
4: GoldenEssence_75 + 7
5
7
10
5: Chilliams_86
4
6
8
15
16
19
21
6: Artu_82 + 1
4
6
8
15
16
19
21
7: KSunshine22_84 + 4
5
7
10
11
13
21
8: SJReid_92
1
3
7
8
19
20
9: Laure_91

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 291505 Report

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

Pham number 291505 has 23 members, 13 are drafts.

Phages represented in each track:
• Track 1 : LeoJr_89, Atuin_84, ReginaGlobina_89
• Track 2 : Phrampa_81
• Track 3 : Rockabye_91
• Track 4 : GoldenEssence_75, Racecar_90, Patbob_88, FloraSnap32_89, Bloom_93, Talia1610_89, FrostedClock_91, Mimi_89
• Track 5 : Chilliams_86
• Track 6 : Artu_82, Ellewin_81
• Track 7 : KSunshine22_84, BooTeria_86, Emmetator_82, WaddleDee_77, DunneganBoMo_79
• Track 8 : SJReid_92
• Track 9 : Laure_91

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

The start number called the most often in the published annotations is 2, it was called in 6 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bloom_93, FloraSnap32_89, FrostedClock_91, GoldenEssence_75, Mimi_89, Patbob_88, Phrampa_81, Racecar_90, Talia1610_89,

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

Genes that do not have the "Most Annotated" start:
• Artu_82, Atuin_84, BooTeria_86, Chilliams_86, DunneganBoMo_79, Ellewin_81, Emmetator_82, KSunshine22_84, Laure_91, LeoJr_89, ReginaGlobina_89, Rockabye_91, SJReid_92, WaddleDee_77,

Summary by start number:

Start 1:
• Found in 1 of 23 (4.3%) 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_91 (UNK),

Start 2:
• Found in 9 of 23 (39.1%) of genes in pham
• Manual Annotations of this start: 6 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bloom_93 (FC), FloraSnap32_89 (FC), FrostedClock_91 (FC), GoldenEssence_75 (FC), Mimi_89 (FC), Patbob_88 (FC), Phrampa_81 (FC), Racecar_90 (FC), Talia1610_89 (FC),

Start 4:
• Found in 10 of 23 (43.5%) of genes in pham
• Manual Annotations of this start: 3 of 10
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Atuin_84 (FC), BooTeria_86 (FC), DunneganBoMo_79 (FC), Emmetator_82 (FC), KSunshine22_84 (FC), LeoJr_89 (FC), ReginaGlobina_89 (FC), WaddleDee_77 (FC),

Start 6:
• Found in 10 of 23 (43.5%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Artu_82 (FC), Ellewin_81 (FC),

Start 7:
• Found in 4 of 23 (17.4%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Chilliams_86 (FC), Rockabye_91 (FC), SJReid_92 (FC),

Summary by clusters:

There are 2 clusters represented in this pham: UNK, FC,

Info for manual annotations of cluster FC:
•Start number 2 was manually annotated 6 times for cluster FC.
•Start number 4 was manually annotated 3 times for cluster FC.
•Start number 7 was manually annotated 1 time for cluster FC.

Gene Information:

Gene: Artu_82 Start: 50218, Stop: 50499, Start Num: 6
Candidate Starts for Artu_82:
(Start: 4 @50197 has 3 MA's), (6, 50218), (8, 50254), (15, 50374), (16, 50437), (19, 50476), (21, 50491),

Gene: Atuin_84 Start: 52841, Stop: 53149, Start Num: 4
Candidate Starts for Atuin_84:

(Start: 4 @52841 has 3 MA's), (6, 52862), (8, 52898), (12, 52973), (16, 53087), (21, 53141),

Gene: Bloom_93 Start: 54209, Stop: 54505, Start Num: 2
Candidate Starts for Bloom_93:
(Start: 2 @54209 has 6 MA's), (9, 54317), (14, 54407),

Gene: BooTeria_86 Start: 50265, Stop: 50567, Start Num: 4
Candidate Starts for BooTeria_86:
(Start: 4 @50265 has 3 MA's), (6, 50286), (8, 50322), (15, 50442), (16, 50505), (19, 50544), (21, 50559),

Gene: Chilliams_86 Start: 56171, Stop: 56428, Start Num: 7
Candidate Starts for Chilliams_86:
(5, 56126), (Start: 7 @56171 has 1 MA's), (10, 56204),

Gene: DunneganBoMo_79 Start: 49690, Stop: 49992, Start Num: 4
Candidate Starts for DunneganBoMo_79:
(Start: 4 @49690 has 3 MA's), (6, 49711), (8, 49747), (15, 49867), (16, 49930), (19, 49969), (21, 49984),

Gene: Ellewin_81 Start: 49306, Stop: 49587, Start Num: 6
Candidate Starts for Ellewin_81:
(Start: 4 @49285 has 3 MA's), (6, 49306), (8, 49342), (15, 49462), (16, 49525), (19, 49564), (21, 49579),

Gene: Emmetator_82 Start: 50437, Stop: 50739, Start Num: 4
Candidate Starts for Emmetator_82:
(Start: 4 @50437 has 3 MA's), (6, 50458), (8, 50494), (15, 50614), (16, 50677), (19, 50716), (21, 50731),

Gene: FloraSnap32_89 Start: 53246, Stop: 53542, Start Num: 2
Candidate Starts for FloraSnap32_89:
(Start: 2 @53246 has 6 MA's), (9, 53354), (14, 53444),

Gene: FrostedClock_91 Start: 53697, Stop: 53993, Start Num: 2
Candidate Starts for FrostedClock_91:
(Start: 2 @53697 has 6 MA's), (9, 53805), (14, 53895),

Gene: GoldenEssence_75 Start: 48002, Stop: 48298, Start Num: 2
Candidate Starts for GoldenEssence_75:
(Start: 2 @48002 has 6 MA's), (9, 48110), (14, 48200),

Gene: KSunshine22_84 Start: 50924, Stop: 51226, Start Num: 4
Candidate Starts for KSunshine22_84:
(Start: 4 @50924 has 3 MA's), (6, 50945), (8, 50981), (15, 51101), (16, 51164), (19, 51203), (21, 51218),

Gene: Laure_91 Start: 53773, Stop: 54114, Start Num: 1
Candidate Starts for Laure_91:
(1, 53773), (3, 53809), (Start: 7 @53866 has 1 MA's), (8, 53872), (18, 54097), (20, 54100),

Gene: LeoJr_89 Start: 52969, Stop: 53277, Start Num: 4
Candidate Starts for LeoJr_89:

(Start: 4 @52969 has 3 MA's), (6, 52990), (8, 53026), (12, 53101), (16, 53215), (21, 53269),

Gene: Mimi_89 Start: 53556, Stop: 53852, Start Num: 2
Candidate Starts for Mimi_89:
(Start: 2 @53556 has 6 MA's), (9, 53664), (14, 53754),

Gene: Patbob_88 Start: 54428, Stop: 54724, Start Num: 2
Candidate Starts for Patbob_88:
(Start: 2 @54428 has 6 MA's), (9, 54536), (14, 54626),

Gene: Phrampa_81 Start: 51159, Stop: 51455, Start Num: 2
Candidate Starts for Phrampa_81:
(Start: 2 @51159 has 6 MA's), (9, 51267), (17, 51447),

Gene: Racecar_90 Start: 54209, Stop: 54505, Start Num: 2
Candidate Starts for Racecar_90:
(Start: 2 @54209 has 6 MA's), (9, 54317), (14, 54407),

Gene: ReginaGlobina_89 Start: 53722, Stop: 54030, Start Num: 4
Candidate Starts for ReginaGlobina_89:
(Start: 4 @53722 has 3 MA's), (6, 53743), (8, 53779), (12, 53854), (16, 53968), (21, 54022),

Gene: Rockabye_91 Start: 56524, Stop: 56787, Start Num: 7
Candidate Starts for Rockabye_91:
(5, 56479), (Start: 7 @56524 has 1 MA's), (10, 56557), (16, 56722),

Gene: SJReid_92 Start: 55600, Stop: 55839, Start Num: 7
Candidate Starts for SJReid_92:
(5, 55555), (Start: 7 @55600 has 1 MA's), (10, 55633), (11, 55651), (13, 55684), (21, 55831),

Gene: Talia1610_89 Start: 53574, Stop: 53870, Start Num: 2
Candidate Starts for Talia1610_89:
(Start: 2 @53574 has 6 MA's), (9, 53682), (14, 53772),

Gene: WaddleDee_77 Start: 49545, Stop: 49847, Start Num: 4
Candidate Starts for WaddleDee_77:
(Start: 4 @49545 has 3 MA's), (6, 49566), (8, 49602), (15, 49722), (16, 49785), (19, 49824), (21, 49839),