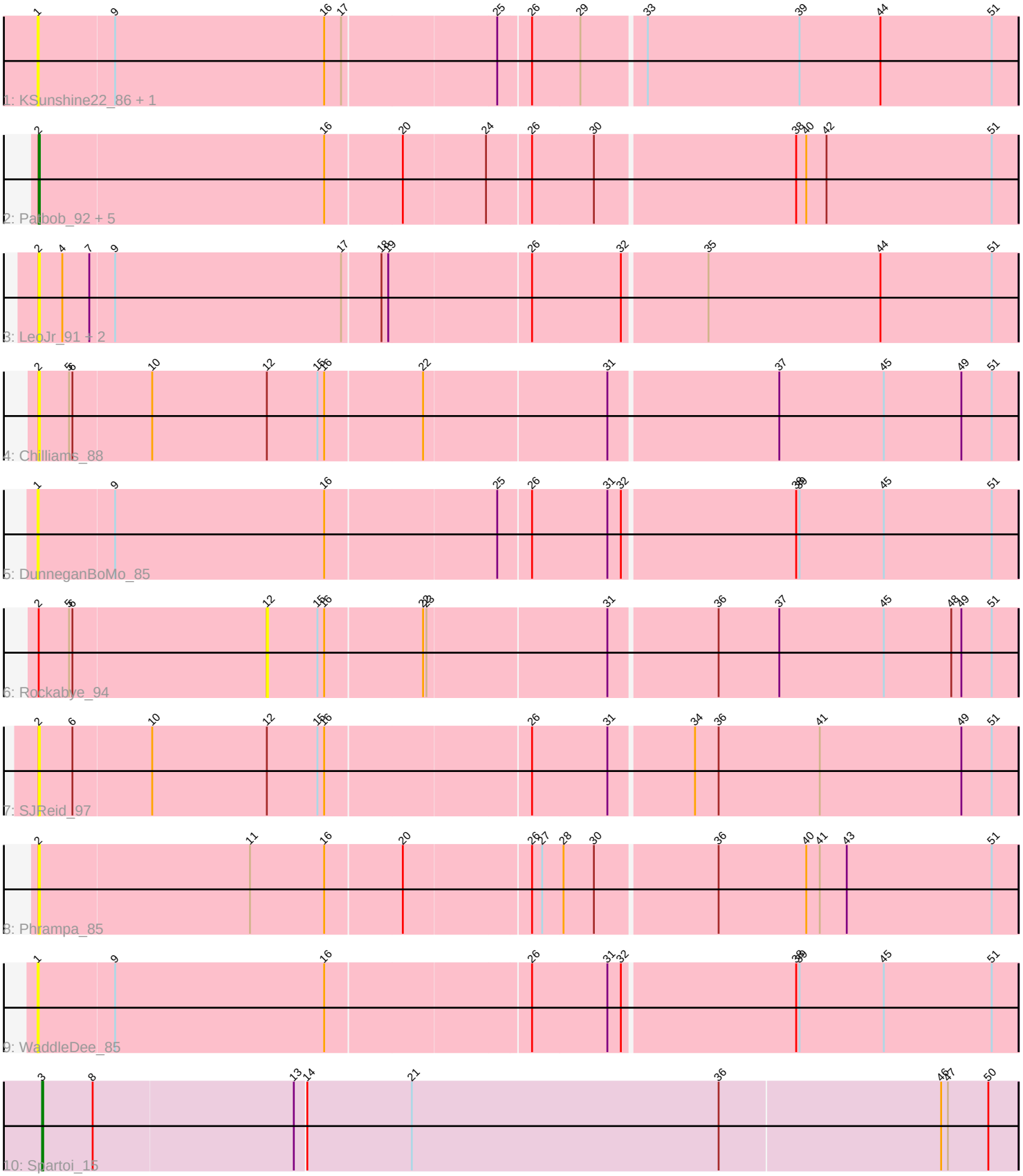
Pham 203352


1: KSunshine22_86 + 1
2: Patbob_92 + 5
3: LeoJr_91 + 2
4: Chilliams_88
5: DunneganBoMo_85
6: Rockabye_94
7: SJReid_97
8: Phrampa_85
9: WaddleDee_85
10: Spartoi_15

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 203352 Report

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

Pham number 203352 has 18 members, 15 are drafts.

Phages represented in each track:
• Track 1 : KSunshine22_86, Ellewin_83
• Track 2 : Patbob_92, Talia1610_91, Bloom_95, GoldenEssence_80, Mimi_97, Racecar_92
• Track 3 : LeoJr_91, Atuin_89, ReginaGlobina_91
• Track 4 : Chilliams_88
• Track 5 : DunneganBoMo_85
• Track 6 : Rockabye_94
• Track 7 : SJReid_97
• Track 8 : Phrampa_85
• Track 9 : WaddleDee_85
• Track 10 : Spartoi_15

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 2 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Atuin_89, Bloom_95, Chilliams_88, GoldenEssence_80, LeoJr_91, Mimi_97, Patbob_92, Phrampa_85, Racecar_92, ReginaGlobina_91, SJReid_97, Talia1610_91,

Genes that have the "Most Annotated" start but do not call it:
• Rockabye_94,

Genes that do not have the "Most Annotated" start:
• DunneganBoMo_85, Ellewin_83, KSunshine22_86, Spartoi_15, WaddleDee_85,

Summary by start number:

Start 1:
• Found in 4 of 18 (22.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present

• Phage (with cluster) where this start called: DunneganBoMo_85 (FC), Ellewin_83 (FC), KSunshine22_86 (FC), WaddleDee_85 (FC),

Start 2:
• Found in 13 of 18 (72.2%) of genes in pham
• Manual Annotations of this start: 2 of 3
• Called 92.3% of time when present
• Phage (with cluster) where this start called: Atuin_89 (FC), Bloom_95 (FC), Chilliams_88 (FC), GoldenEssence_80 (FC), LeoJr_91 (FC), Mimi_97 (FC), Patbob_92 (FC), Phrampa_85 (FC), Racecar_92 (FC), ReginaGlobina_91 (FC), SJReid_97 (FC), Talia1610_91 (FC),

Start 3:
• Found in 1 of 18 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 3
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Spartoi_15 (singleton),

Start 12:
• Found in 3 of 18 (16.7%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Rockabye_94 (FC),

Summary by clusters:

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

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

Gene Information:

Gene: Atuin_89 Start: 59949, Stop: 60800, Start Num: 2
Candidate Starts for Atuin_89:
(Start: 2 @59949 has 2 MA's), (4, 59970), (7, 59994), (9, 60015), (17, 60216), (18, 60249), (19, 60255), (26, 60375), (32, 60453), (35, 60525), (44, 60678), (51, 60777),

Gene: Bloom_95 Start: 60812, Stop: 61663, Start Num: 2
Candidate Starts for Bloom_95:
(Start: 2 @60812 has 2 MA's), (16, 61064), (20, 61130), (24, 61202), (26, 61238), (30, 61292), (38, 61466), (40, 61475), (42, 61493), (51, 61640),

Gene: Chilliams_88 Start: 61239, Stop: 62090, Start Num: 2
Candidate Starts for Chilliams_88:
(Start: 2 @61239 has 2 MA's), (5, 61266), (6, 61269), (10, 61338), (12, 61440), (15, 61485), (16, 61491), (22, 61575), (31, 61731), (37, 61878), (45, 61971), (49, 62040), (51, 62067),

Gene: DunneganBoMo_85 Start: 56806, Stop: 57657, Start Num: 1
Candidate Starts for DunneganBoMo_85:

(1, 56806), (9, 56872), (16, 57058), (25, 57205), (26, 57232), (31, 57298), (32, 57310), (38, 57460), (39, 57463), (45, 57538), (51, 57634),

Gene: Ellewin_83 Start: 56395, Stop: 57246, Start Num: 1
Candidate Starts for Ellewin_83:
(1, 56395), (9, 56461), (16, 56647), (17, 56662), (25, 56794), (26, 56821), (29, 56863), (33, 56917), (39, 57052), (44, 57124), (51, 57223),

Gene: GoldenEssence_80 Start: 54608, Stop: 55459, Start Num: 2
Candidate Starts for GoldenEssence_80:
(Start: 2 @54608 has 2 MA's), (16, 54860), (20, 54926), (24, 54998), (26, 55034), (30, 55088), (38, 55262), (40, 55271), (42, 55289), (51, 55436),

Gene: KSunshine22_86 Start: 58028, Stop: 58879, Start Num: 1
Candidate Starts for KSunshine22_86:
(1, 58028), (9, 58094), (16, 58280), (17, 58295), (25, 58427), (26, 58454), (29, 58496), (33, 58550), (39, 58685), (44, 58757), (51, 58856),

Gene: LeoJr_91 Start: 60077, Stop: 60928, Start Num: 2
Candidate Starts for LeoJr_91:
(Start: 2 @60077 has 2 MA's), (4, 60098), (7, 60122), (9, 60143), (17, 60344), (18, 60377), (19, 60383), (26, 60503), (32, 60581), (35, 60653), (44, 60806), (51, 60905),

Gene: Mimi_97 Start: 60159, Stop: 61010, Start Num: 2
Candidate Starts for Mimi_97:
(Start: 2 @60159 has 2 MA's), (16, 60411), (20, 60477), (24, 60549), (26, 60585), (30, 60639), (38, 60813), (40, 60822), (42, 60840), (51, 60987),

Gene: Patbob_92 Start: 61031, Stop: 61882, Start Num: 2
Candidate Starts for Patbob_92:
(Start: 2 @61031 has 2 MA's), (16, 61283), (20, 61349), (24, 61421), (26, 61457), (30, 61511), (38, 61685), (40, 61694), (42, 61712), (51, 61859),

Gene: Phrampa_85 Start: 58344, Stop: 59195, Start Num: 2
Candidate Starts for Phrampa_85:
(Start: 2 @58344 has 2 MA's), (11, 58530), (16, 58596), (20, 58662), (26, 58770), (27, 58779), (28, 58797), (30, 58824), (36, 58929), (40, 59007), (41, 59019), (43, 59043), (51, 59172),

Gene: Racecar_92 Start: 60812, Stop: 61663, Start Num: 2
Candidate Starts for Racecar_92:
(Start: 2 @60812 has 2 MA's), (16, 61064), (20, 61130), (24, 61202), (26, 61238), (30, 61292), (38, 61466), (40, 61475), (42, 61493), (51, 61640),

Gene: ReginaGlobina_91 Start: 60830, Stop: 61681, Start Num: 2
Candidate Starts for ReginaGlobina_91:
(Start: 2 @60830 has 2 MA's), (4, 60851), (7, 60875), (9, 60896), (17, 61097), (18, 61130), (19, 61136), (26, 61256), (32, 61334), (35, 61406), (44, 61559), (51, 61658),

Gene: Rockabye_94 Start: 61799, Stop: 62449, Start Num: 12
Candidate Starts for Rockabye_94:
(Start: 2 @61598 has 2 MA's), (5, 61625), (6, 61628), (12, 61799), (15, 61844), (16, 61850), (22, 61934), (23, 61937), (31, 62090), (36, 62183), (37, 62237), (45, 62330), (48, 62390), (49, 62399), (51, 62426),

Gene: SJReid_97 Start: 60651, Stop: 61502, Start Num: 2
Candidate Starts for SJReid_97:
(Start: 2 @60651 has 2 MA's), (6, 60681), (10, 60750), (12, 60852), (15, 60897), (16, 60903), (26, 61077), (31, 61143), (34, 61215), (36, 61236), (41, 61326), (49, 61452), (51, 61479),

Gene: Spartoi_15 Start: 11996, Stop: 12856, Start Num: 3
Candidate Starts for Spartoi_15:
(Start: 3 @11996 has 1 MA's), (8, 12041), (13, 12218), (14, 12227), (21, 12320), (36, 12593), (46, 12788), (47, 12794), (50, 12830),

Gene: Talia1610_91 Start: 60177, Stop: 61028, Start Num: 2
Candidate Starts for Talia1610_91:
(Start: 2 @60177 has 2 MA's), (16, 60429), (20, 60495), (24, 60567), (26, 60603), (30, 60657), (38, 60831), (40, 60840), (42, 60858), (51, 61005),

Gene: WaddleDee_85 Start: 56661, Stop: 57512, Start Num: 1
Candidate Starts for WaddleDee_85:
(1, 56661), (9, 56727), (16, 56913), (26, 57087), (31, 57153), (32, 57165), (38, 57315), (39, 57318), (45, 57393), (51, 57489),