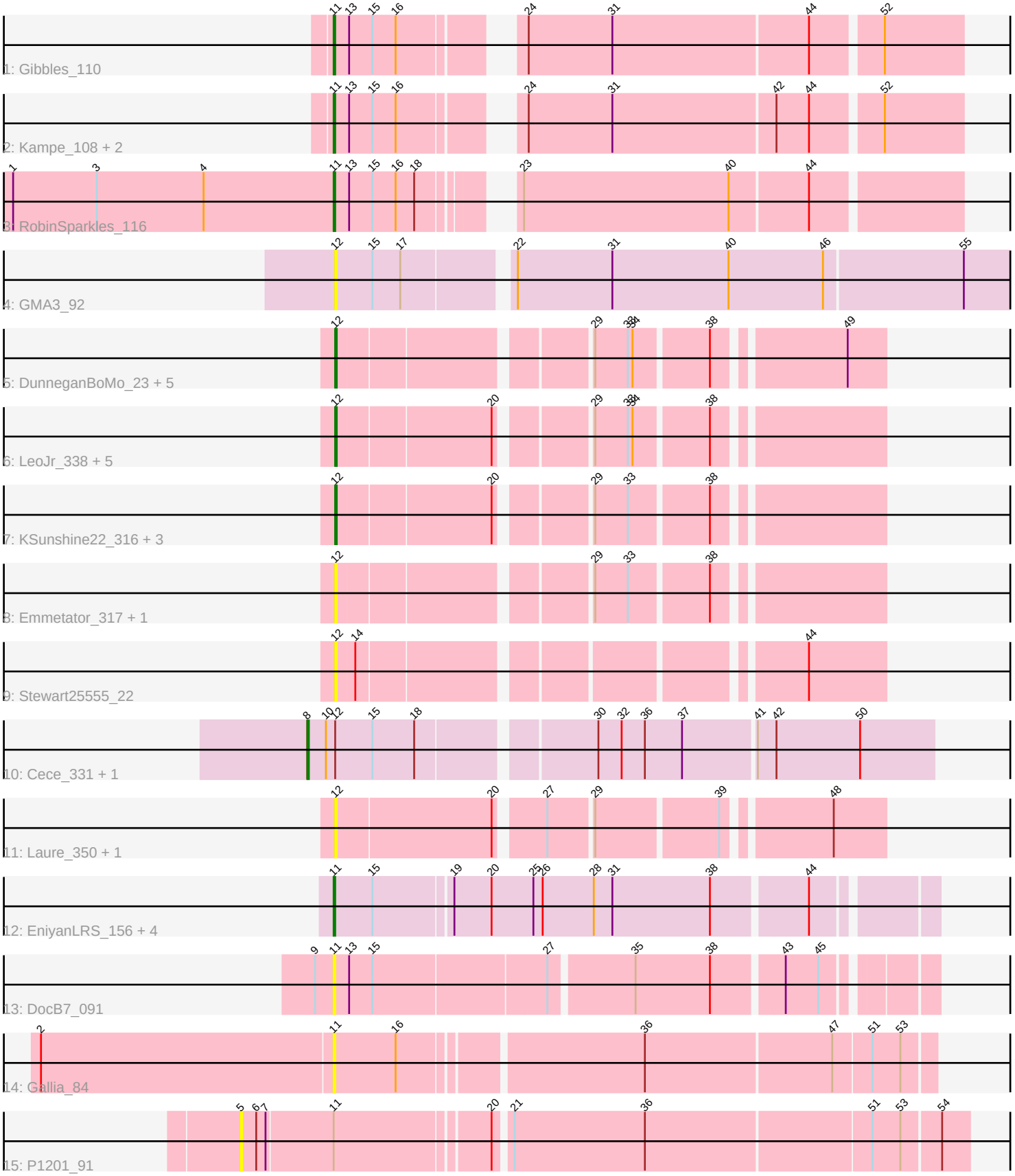
Pham 311805


1: Gibbles_110
2: Kampe_108 + 2
3: RobinSparkles_116
4: GMA3_92
5: DunneganBoMo_23 + 5
6: LeoJr_338 + 5
7: KSunshine22_316 + 3
8: Emmetator_317 + 1
9: Stewart25555_22
10: Cece_331 + 1
11: Laure_350 + 1
12: EniyanLRS_156 + 4
13: DocB7_091
14: Gallia_84
15: P1201_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 311805 Report

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

Pham number 311805 has 37 members, 17 are drafts.

Phages represented in each track:
• Track 1 : Gibbles_110
• Track 2 : Kampe_108, PatrickStar_108, Orchid_107
• Track 3 : RobinSparkles_116
• Track 4 : GMA3_92
• Track 5 : DunneganBoMo_23, DunneganBoMo_318, WaddleDee_313, BooTeria_325, BooTeria_26, WaddleDee_22
• Track 6 : LeoJr_338, LeoJr_25, ReginaGlobina_333, ReginaGlobina_22, Atuin_321, Atuin_21
• Track 7 : KSunshine22_316, Ellewin_315, KSunshine22_24, Ellewin_22
• Track 8 : Emmetator_317, Emmetator_23
• Track 9 : Stewart25555_22
• Track 10 : Cece_331, Cece_29
• Track 11 : Laure_350, Laure_32
• Track 12 : EniyanLRS_156, MaryV_149, Wildcat_163, Cosmo_164, Azrael100_155
• Track 13 : DocB7_091
• Track 14 : Gallia_84
• Track 15 : P1201_91

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 10 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Azrael100_155, Cosmo_164, DocB7_091, EniyanLRS_156, Gallia_84, Gibbles_110, Kampe_108, MaryV_149, Orchid_107, PatrickStar_108, RobinSparkles_116, Wildcat_163,

Genes that have the "Most Annotated" start but do not call it:
• P1201_91,

Genes that do not have the "Most Annotated" start:
• Atuin_21, Atuin_321, BooTeria_26, BooTeria_325, Cece_29, Cece_331, DunneganBoMo_23, DunneganBoMo_318, Ellewin_22, Ellewin_315, Emmetator_23,

Emmetator_317, GMA3_92, KSunshine22_24, KSunshine22_316, Laure_32, Laure_350, LeoJr_25, LeoJr_338, ReginaGlobina_22, ReginaGlobina_333, Stewart25555_22, WaddleDee_22, WaddleDee_313,

Summary by start number:

Start 5:
• Found in 1 of 37 (2.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: P1201_91 (singleton),

Start 8:
• Found in 2 of 37 (5.4%) of genes in pham
• Manual Annotations of this start: 2 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cece_29 (GD3), Cece_331 (GD3),

Start 11:
• Found in 13 of 37 (35.1%) of genes in pham
• Manual Annotations of this start: 10 of 20
• Called 92.3% of time when present
• Phage (with cluster) where this start called: Azrael100_155 (V), Cosmo_164 (V), DocB7_091 (singleton), EniyanLRS_156 (V), Gallia_84 (singleton), Gibbles_110 (CX), Kampe_108 (CX), MaryV_149 (V), Orchid_107 (CX), PatrickStar_108 (CX), RobinSparkles_116 (CX), Wildcat_163 (V),

Start 12:
• Found in 24 of 37 (64.9%) of genes in pham
• Manual Annotations of this start: 8 of 20
• Called 91.7% of time when present
• Phage (with cluster) where this start called: Atuin_21 (FC), Atuin_321 (FC), BooTeria_26 (FC), BooTeria_325 (FC), DunneganBoMo_23 (FC), DunneganBoMo_318 (FC), Ellewin_22 (FC), Ellewin_315 (FC), Emmetator_23 (FC), Emmetator_317 (FC), GMA3_92 (DF2), KSunshine22_24 (FC), KSunshine22_316 (FC), Laure_32 (UNK), Laure_350 (UNK), LeoJr_25 (FC), LeoJr_338 (FC), ReginaGlobina_22 (FC), ReginaGlobina_333 (FC), Stewart25555_22 (FC), WaddleDee_22 (FC), WaddleDee_313 (FC),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, GD3, CX, DF2, FC, V, UNK,

Info for manual annotations of cluster CX:
•Start number 11 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster FC:
•Start number 12 was manually annotated 8 times for cluster FC.

Info for manual annotations of cluster GD3:
•Start number 8 was manually annotated 2 times for cluster GD3.

Info for manual annotations of cluster V:
•Start number 11 was manually annotated 5 times for cluster V.

Gene Information:

Gene: Atuin_321 Start: 187391, Stop: 187705, Start Num: 12
Candidate Starts for Atuin_321:
(Start: 12 @187391 has 8 MA's), (20, 187487), (29, 187538), (33, 187559), (34, 187562), (38, 187607),

Gene: Atuin_21 Start: 10503, Stop: 10817, Start Num: 12
Candidate Starts for Atuin_21:
(Start: 12 @10503 has 8 MA's), (20, 10599), (29, 10650), (33, 10671), (34, 10674), (38, 10719),

Gene: Azrael100_155 Start: 73478, Stop: 73113, Start Num: 11
Candidate Starts for Azrael100_155:
(Start: 11 @73478 has 10 MA's), (15, 73454), (19, 73406), (20, 73382), (25, 73355), (26, 73349), (28, 73316), (31, 73304), (38, 73241), (44, 73184),

Gene: BooTeria_325 Start: 189266, Stop: 189580, Start Num: 12
Candidate Starts for BooTeria_325:
(Start: 12 @189266 has 8 MA's), (29, 189413), (33, 189434), (34, 189437), (38, 189482), (49, 189557),

Gene: BooTeria_26 Start: 10357, Stop: 10671, Start Num: 12
Candidate Starts for BooTeria_26:
(Start: 12 @10357 has 8 MA's), (29, 10504), (33, 10525), (34, 10528), (38, 10573), (49, 10648),

Gene: Cece_331 Start: 179524, Stop: 179910, Start Num: 8
Candidate Starts for Cece_331:
(Start: 8 @179524 has 2 MA's), (10, 179536), (Start: 12 @179542 has 8 MA's), (15, 179566), (18, 179593), (30, 179698), (32, 179713), (36, 179728), (37, 179752), (41, 179797), (42, 179809), (50, 179863),

Gene: Cece_29 Start: 11090, Stop: 11476, Start Num: 8
Candidate Starts for Cece_29:
(Start: 8 @11090 has 2 MA's), (10, 11102), (Start: 12 @11108 has 8 MA's), (15, 11132), (18, 11159), (30, 11264), (32, 11279), (36, 11294), (37, 11318), (41, 11363), (42, 11375), (50, 11429),

Gene: Cosmo_164 Start: 73642, Stop: 73277, Start Num: 11
Candidate Starts for Cosmo_164:
(Start: 11 @73642 has 10 MA's), (15, 73618), (19, 73570), (20, 73546), (25, 73519), (26, 73513), (28, 73480), (31, 73468), (38, 73405), (44, 73348),

Gene: DocB7_091 Start: 64971, Stop: 64615, Start Num: 11
Candidate Starts for DocB7_091:
(9, 64983), (Start: 11 @64971 has 10 MA's), (13, 64962), (15, 64947), (27, 64839), (35, 64788), (38, 64740), (43, 64698), (45, 64677),

Gene: DunneganBoMo_23 Start: 10343, Stop: 10657, Start Num: 12
Candidate Starts for DunneganBoMo_23:
(Start: 12 @10343 has 8 MA's), (29, 10490), (33, 10511), (34, 10514), (38, 10559), (49, 10634),

Gene: DunneganBoMo_318 Start: 189755, Stop: 190069, Start Num: 12
Candidate Starts for DunneganBoMo_318:
(Start: 12 @189755 has 8 MA's), (29, 189902), (33, 189923), (34, 189926), (38, 189971), (49, 190046),

Gene: Ellewin_315 Start: 189269, Stop: 189583, Start Num: 12
Candidate Starts for Ellewin_315:
(Start: 12 @189269 has 8 MA's), (20, 189365), (29, 189416), (33, 189437), (38, 189485),

Gene: Ellewin_22 Start: 10155, Stop: 10469, Start Num: 12
Candidate Starts for Ellewin_22:
(Start: 12 @10155 has 8 MA's), (20, 10251), (29, 10302), (33, 10323), (38, 10371),

Gene: Emmetator_317 Start: 188492, Stop: 188806, Start Num: 12
Candidate Starts for Emmetator_317:
(Start: 12 @188492 has 8 MA's), (29, 188639), (33, 188660), (38, 188708),

Gene: Emmetator_23 Start: 10192, Stop: 10506, Start Num: 12
Candidate Starts for Emmetator_23:
(Start: 12 @10192 has 8 MA's), (29, 10339), (33, 10360), (38, 10408),

Gene: EniyanLRS_156 Start: 73969, Stop: 73604, Start Num: 11
Candidate Starts for EniyanLRS_156:
(Start: 11 @73969 has 10 MA's), (15, 73945), (19, 73897), (20, 73873), (25, 73846), (26, 73840), (28, 73807), (31, 73795), (38, 73732), (44, 73675),

Gene: GMA3_92 Start: 68671, Stop: 68228, Start Num: 12
Candidate Starts for GMA3_92:
(Start: 12 @68671 has 8 MA's), (15, 68647), (17, 68629), (22, 68566), (31, 68506), (40, 68431), (46, 68371), (55, 68284),

Gene: Gallia_84 Start: 64536, Stop: 64901, Start Num: 11
Candidate Starts for Gallia_84:
(2, 64350), (Start: 11 @64536 has 10 MA's), (16, 64575), (36, 64722), (47, 64839), (51, 64863), (53, 64881),

Gene: Gibbles_110 Start: 75976, Stop: 75608, Start Num: 11
Candidate Starts for Gibbles_110:
(Start: 11 @75976 has 10 MA's), (13, 75967), (15, 75952), (16, 75937), (24, 75877), (31, 75823), (44, 75700), (52, 75658),

Gene: KSunshine22_316 Start: 187615, Stop: 187929, Start Num: 12
Candidate Starts for KSunshine22_316:
(Start: 12 @187615 has 8 MA's), (20, 187711), (29, 187762), (33, 187783), (38, 187831),

Gene: KSunshine22_24 Start: 10714, Stop: 11028, Start Num: 12
Candidate Starts for KSunshine22_24:
(Start: 12 @10714 has 8 MA's), (20, 10810), (29, 10861), (33, 10882), (38, 10930),

Gene: Kampe_108 Start: 75398, Stop: 75030, Start Num: 11
Candidate Starts for Kampe_108:
(Start: 11 @75398 has 10 MA's), (13, 75389), (15, 75374), (16, 75359), (24, 75299), (31, 75245), (42, 75143), (44, 75122), (52, 75080),

Gene: Laure_350 Start: 182735, Stop: 183055, Start Num: 12
Candidate Starts for Laure_350:
(Start: 12 @182735 has 8 MA's), (20, 182834), (27, 182861), (29, 182888), (39, 182963), (48, 183023),

Gene: Laure_32 Start: 14387, Stop: 14707, Start Num: 12
Candidate Starts for Laure_32:
(Start: 12 @14387 has 8 MA's), (20, 14486), (27, 14513), (29, 14540), (39, 14615), (48, 14675),

Gene: LeoJr_338 Start: 188108, Stop: 188422, Start Num: 12
Candidate Starts for LeoJr_338:
(Start: 12 @188108 has 8 MA's), (20, 188204), (29, 188255), (33, 188276), (34, 188279), (38, 188324),

Gene: LeoJr_25 Start: 10805, Stop: 11119, Start Num: 12
Candidate Starts for LeoJr_25:
(Start: 12 @10805 has 8 MA's), (20, 10901), (29, 10952), (33, 10973), (34, 10976), (38, 11021),

Gene: MaryV_149 Start: 71819, Stop: 71454, Start Num: 11
Candidate Starts for MaryV_149:
(Start: 11 @71819 has 10 MA's), (15, 71795), (19, 71747), (20, 71723), (25, 71696), (26, 71690), (28, 71657), (31, 71645), (38, 71582), (44, 71525),

Gene: Orchid_107 Start: 75399, Stop: 75031, Start Num: 11
Candidate Starts for Orchid_107:
(Start: 11 @75399 has 10 MA's), (13, 75390), (15, 75375), (16, 75360), (24, 75300), (31, 75246), (42, 75144), (44, 75123), (52, 75081),

Gene: P1201_91 Start: 65195, Stop: 65638, Start Num: 5
Candidate Starts for P1201_91:
(5, 65195), (6, 65204), (7, 65210), (Start: 11 @65252 has 10 MA's), (20, 65345), (21, 65354), (36, 65438), (51, 65579), (53, 65597), (54, 65621),

Gene: PatrickStar_108 Start: 75478, Stop: 75110, Start Num: 11
Candidate Starts for PatrickStar_108:
(Start: 11 @75478 has 10 MA's), (13, 75469), (15, 75454), (16, 75439), (24, 75379), (31, 75325), (42, 75223), (44, 75202), (52, 75160),

Gene: ReginaGlobina_333 Start: 188110, Stop: 188424, Start Num: 12
Candidate Starts for ReginaGlobina_333:
(Start: 12 @188110 has 8 MA's), (20, 188206), (29, 188257), (33, 188278), (34, 188281), (38, 188326),

Gene: ReginaGlobina_22 Start: 10663, Stop: 10977, Start Num: 12
Candidate Starts for ReginaGlobina_22:
(Start: 12 @10663 has 8 MA's), (20, 10759), (29, 10810), (33, 10831), (34, 10834), (38, 10879),

Gene: RobinSparkles_116 Start: 76337, Stop: 75972, Start Num: 11
Candidate Starts for RobinSparkles_116:
(1, 76544), (3, 76490), (4, 76421), (Start: 11 @76337 has 10 MA's), (13, 76328), (15, 76313), (16, 76298), (18, 76286), (23, 76244), (40, 76112), (44, 76064),

Gene: Stewart25555_22 Start: 9953, Stop: 10267, Start Num: 12
Candidate Starts for Stewart25555_22:
(Start: 12 @9953 has 8 MA's), (14, 9965), (44, 10220),

Gene: WaddleDee_313 Start: 188284, Stop: 188598, Start Num: 12
Candidate Starts for WaddleDee_313:
(Start: 12 @188284 has 8 MA's), (29, 188431), (33, 188452), (34, 188455), (38, 188500), (49, 188575),

Gene: WaddleDee_22 Start: 10089, Stop: 10403, Start Num: 12
Candidate Starts for WaddleDee_22:
(Start: 12 @10089 has 8 MA's), (29, 10236), (33, 10257), (34, 10260), (38, 10305), (49, 10380),

Gene: Wildcat_163 Start: 73712, Stop: 73347, Start Num: 11
Candidate Starts for Wildcat_163:
(Start: 11 @73712 has 10 MA's), (15, 73688), (19, 73640), (20, 73616), (25, 73589), (26, 73583), (28, 73550), (31, 73538), (38, 73475), (44, 73418),