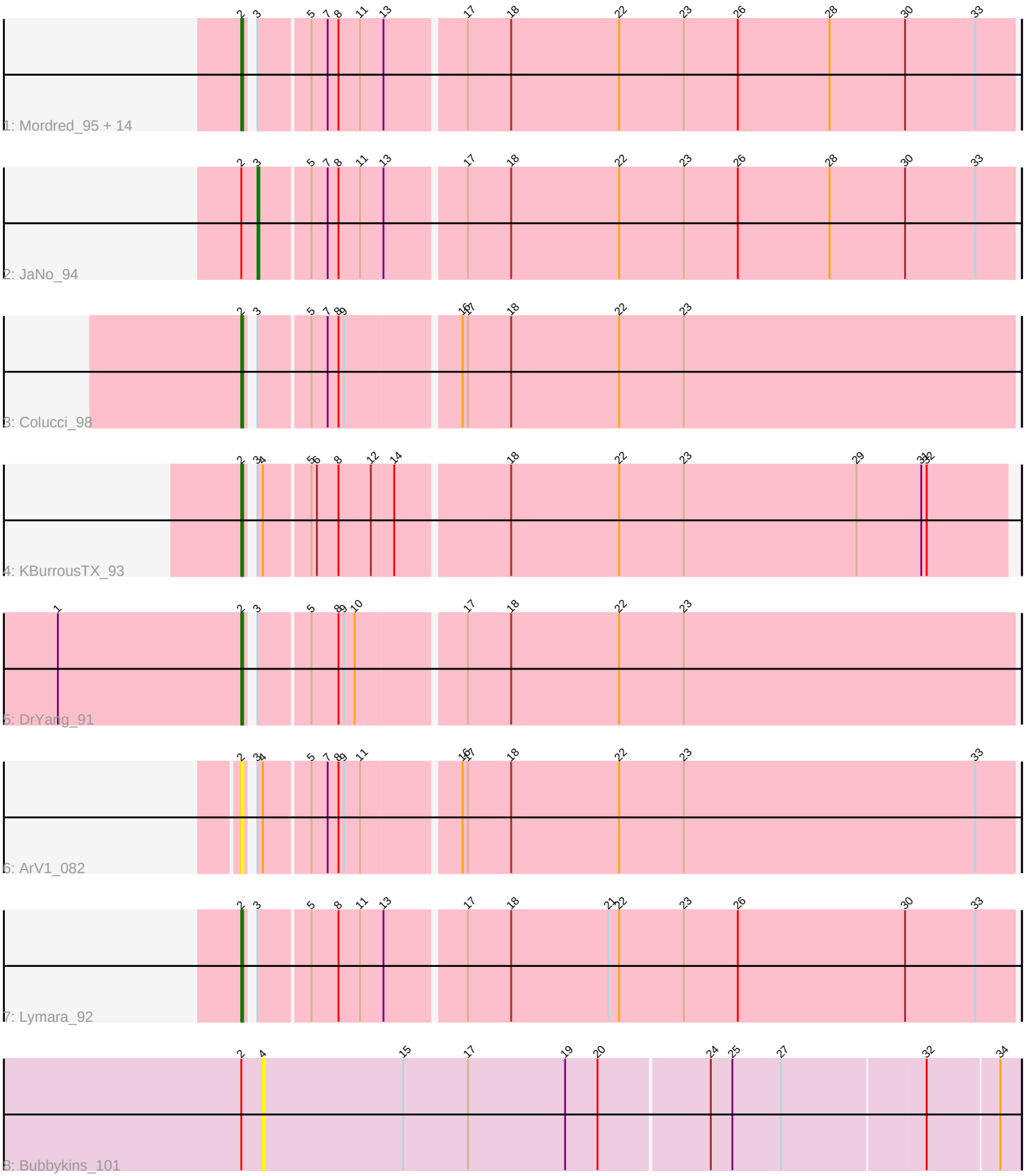
Pham 284173


1: Mordred_95 + 14
2: JaNo_94
3: Colucci_98
4: KBurrousTX_93
5: DrYang_91
6: ArV1_082
7: Lymara_92
8: Bubbykins_101

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 284173 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284173 has 22 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Mordred_95, HumptyDumpty_95, Tophat_96, JayCookie_95, Chubster_95, EdgarPoe_94, RosiePosie_95, Conboy_93, Linus_95, PrincessTrina_96, Chocolat_95, MoyaNatalis_94, Kabreeze_95, Chipper1996_960, Scavito_96
• Track 2 : JaNo_94
• Track 3 : Colucci_98
• Track 4 : KBurrousTX_93
• Track 5 : DrYang_91
• Track 6 : ArV1_082
• Track 7 : Lymara_92
• Track 8 : Bubbykins_101

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 18 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ArV1_082, Chipper1996_960, Chocolat_95, Chubster_95, Colucci_98, Conboy_93, DrYang_91, EdgarPoe_94, HumptyDumpty_95, JayCookie_95, KBurrousTX_93, Kabreeze_95, Linus_95, Lymara_92, Mordred_95, MoyaNatalis_94, PrincessTrina_96, RosiePosie_95, Scavito_96, Tophat_96,

Genes that have the "Most Annotated" start but do not call it:
• Bubbykins_101, JaNo_94,

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

Summary by start number:

Start 2:
• Found in 22 of 22 (100.0%) of genes in pham
• Manual Annotations of this start: 18 of 19
• Called 90.9% of time when present

• Phage (with cluster) where this start called: ArV1_082 (AR), Chipper1996_960 (AR), Chocolat_95 (AR), Chubster_95 (AR), Colucci_98 (AR), Conboy_93 (AR), DrYang_91 (AR), EdgarPoe_94 (AR), HumptyDumpty_95 (AR), JayCookie_95 (AR), KBurrousTX_93 (AR), Kabreeze_95 (AR), Linus_95 (AR), Lymara_92 (AR), Mordred_95 (AR), MoyaNatalis_94 (AR), PrincessTrina_96 (AR), RosiePosie_95 (AR), Scavito_96 (AR), Tophat_96 (AR),

Start 3:
• Found in 21 of 22 (95.5%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 4.8% of time when present
• Phage (with cluster) where this start called: JaNo_94 (AR),

Start 4:
• Found in 3 of 22 (13.6%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Bubbykins_101 (UNK),

Summary by clusters:

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

Info for manual annotations of cluster AR:
•Start number 2 was manually annotated 18 times for cluster AR.
•Start number 3 was manually annotated 1 time for cluster AR.

Gene Information:

Gene: ArV1_082 Start: 60520, Stop: 60933, Start Num: 2
Candidate Starts for ArV1_082:
(Start: 2 @60520 has 18 MA's), (Start: 3 @60523 has 1 MA's), (4, 60526), (5, 60550), (7, 60559), (8, 60565), (9, 60568), (11, 60577), (16, 60628), (17, 60631), (18, 60655), (22, 60715), (23, 60751), (33, 60913),

Gene: Bubbykins_101 Start: 60932, Stop: 61345, Start Num: 4
Candidate Starts for Bubbykins_101:
(Start: 2 @60920 has 18 MA's), (4, 60932), (15, 61010), (17, 61046), (19, 61100), (20, 61118), (24, 61178), (25, 61190), (27, 61217), (32, 61295), (34, 61334),

Gene: Chipper1996_960 Start: 62228, Stop: 62641, Start Num: 2
Candidate Starts for Chipper1996_960:
(Start: 2 @62228 has 18 MA's), (Start: 3 @62231 has 1 MA's), (5, 62258), (7, 62267), (8, 62273), (11, 62285), (13, 62297), (17, 62339), (18, 62363), (22, 62423), (23, 62459), (26, 62489), (28, 62540), (30, 62582), (33, 62621),

Gene: Chocolat_95 Start: 61935, Stop: 62348, Start Num: 2
Candidate Starts for Chocolat_95:
(Start: 2 @61935 has 18 MA's), (Start: 3 @61938 has 1 MA's), (5, 61965), (7, 61974), (8, 61980), (11, 61992), (13, 62004), (17, 62046), (18, 62070), (22, 62130), (23, 62166), (26, 62196), (28, 62247), (30,

62289), (33, 62328),

Gene: Chubster_95 Start: 62175, Stop: 62588, Start Num: 2
Candidate Starts for Chubster_95:
(Start: 2 @62175 has 18 MA's), (Start: 3 @62178 has 1 MA's), (5, 62205), (7, 62214), (8, 62220), (11, 62232), (13, 62244), (17, 62286), (18, 62310), (22, 62370), (23, 62406), (26, 62436), (28, 62487), (30, 62529), (33, 62568),

Gene: Colucci_98 Start: 62563, Stop: 62976, Start Num: 2
Candidate Starts for Colucci_98:
(Start: 2 @62563 has 18 MA's), (Start: 3 @62566 has 1 MA's), (5, 62593), (7, 62602), (8, 62608), (9, 62611), (16, 62671), (17, 62674), (18, 62698), (22, 62758), (23, 62794),

Gene: Conboy_93 Start: 61684, Stop: 62097, Start Num: 2
Candidate Starts for Conboy_93:
(Start: 2 @61684 has 18 MA's), (Start: 3 @61687 has 1 MA's), (5, 61714), (7, 61723), (8, 61729), (11, 61741), (13, 61753), (17, 61795), (18, 61819), (22, 61879), (23, 61915), (26, 61945), (28, 61996), (30, 62038), (33, 62077),

Gene: DrYang_91 Start: 61721, Stop: 62134, Start Num: 2
Candidate Starts for DrYang_91:
(1, 61619), (Start: 2 @61721 has 18 MA's), (Start: 3 @61724 has 1 MA's), (5, 61751), (8, 61766), (9, 61769), (10, 61775), (17, 61832), (18, 61856), (22, 61916), (23, 61952),

Gene: EdgarPoe_94 Start: 62092, Stop: 62505, Start Num: 2
Candidate Starts for EdgarPoe_94:
(Start: 2 @62092 has 18 MA's), (Start: 3 @62095 has 1 MA's), (5, 62122), (7, 62131), (8, 62137), (11, 62149), (13, 62161), (17, 62203), (18, 62227), (22, 62287), (23, 62323), (26, 62353), (28, 62404), (30, 62446), (33, 62485),

Gene: HumptyDumpty_95 Start: 61895, Stop: 62308, Start Num: 2
Candidate Starts for HumptyDumpty_95:
(Start: 2 @61895 has 18 MA's), (Start: 3 @61898 has 1 MA's), (5, 61925), (7, 61934), (8, 61940), (11, 61952), (13, 61964), (17, 62006), (18, 62030), (22, 62090), (23, 62126), (26, 62156), (28, 62207), (30, 62249), (33, 62288),

Gene: JaNo_94 Start: 61869, Stop: 62279, Start Num: 3
Candidate Starts for JaNo_94:
(Start: 2 @61866 has 18 MA's), (Start: 3 @61869 has 1 MA's), (5, 61896), (7, 61905), (8, 61911), (11, 61923), (13, 61935), (17, 61977), (18, 62001), (22, 62061), (23, 62097), (26, 62127), (28, 62178), (30, 62220), (33, 62259),

Gene: JayCookie_95 Start: 62428, Stop: 62841, Start Num: 2
Candidate Starts for JayCookie_95:
(Start: 2 @62428 has 18 MA's), (Start: 3 @62431 has 1 MA's), (5, 62458), (7, 62467), (8, 62473), (11, 62485), (13, 62497), (17, 62539), (18, 62563), (22, 62623), (23, 62659), (26, 62689), (28, 62740), (30, 62782), (33, 62821),

Gene: KBurrousTX_93 Start: 63304, Stop: 63714, Start Num: 2
Candidate Starts for KBurrousTX_93:
(Start: 2 @63304 has 18 MA's), (Start: 3 @63307 has 1 MA's), (4, 63310), (5, 63334), (6, 63337), (8, 63349), (12, 63367), (14, 63379), (18, 63439), (22, 63499), (23, 63535), (29, 63631), (31, 63667), (32, 63670),

Gene: Kabreeze_95 Start: 61952, Stop: 62365, Start Num: 2
Candidate Starts for Kabreeze_95:
(Start: 2 @61952 has 18 MA's), (Start: 3 @61955 has 1 MA's), (5, 61982), (7, 61991), (8, 61997), (11, 62009), (13, 62021), (17, 62063), (18, 62087), (22, 62147), (23, 62183), (26, 62213), (28, 62264), (30, 62306), (33, 62345),

Gene: Linus_95 Start: 62400, Stop: 62813, Start Num: 2
Candidate Starts for Linus_95:
(Start: 2 @62400 has 18 MA's), (Start: 3 @62403 has 1 MA's), (5, 62430), (7, 62439), (8, 62445), (11, 62457), (13, 62469), (17, 62511), (18, 62535), (22, 62595), (23, 62631), (26, 62661), (28, 62712), (30, 62754), (33, 62793),

Gene: Lymara_92 Start: 60859, Stop: 61272, Start Num: 2
Candidate Starts for Lymara_92:
(Start: 2 @60859 has 18 MA's), (Start: 3 @60862 has 1 MA's), (5, 60889), (8, 60904), (11, 60916), (13, 60928), (17, 60970), (18, 60994), (21, 61048), (22, 61054), (23, 61090), (26, 61120), (30, 61213), (33, 61252),

Gene: Mordred_95 Start: 61991, Stop: 62404, Start Num: 2
Candidate Starts for Mordred_95:
(Start: 2 @61991 has 18 MA's), (Start: 3 @61994 has 1 MA's), (5, 62021), (7, 62030), (8, 62036), (11, 62048), (13, 62060), (17, 62102), (18, 62126), (22, 62186), (23, 62222), (26, 62252), (28, 62303), (30, 62345), (33, 62384),

Gene: MoyaNatalis_94 Start: 61874, Stop: 62287, Start Num: 2
Candidate Starts for MoyaNatalis_94:
(Start: 2 @61874 has 18 MA's), (Start: 3 @61877 has 1 MA's), (5, 61904), (7, 61913), (8, 61919), (11, 61931), (13, 61943), (17, 61985), (18, 62009), (22, 62069), (23, 62105), (26, 62135), (28, 62186), (30, 62228), (33, 62267),

Gene: PrincessTrina_96 Start: 62182, Stop: 62595, Start Num: 2
Candidate Starts for PrincessTrina_96:
(Start: 2 @62182 has 18 MA's), (Start: 3 @62185 has 1 MA's), (5, 62212), (7, 62221), (8, 62227), (11, 62239), (13, 62251), (17, 62293), (18, 62317), (22, 62377), (23, 62413), (26, 62443), (28, 62494), (30, 62536), (33, 62575),

Gene: RosiePosie_95 Start: 62047, Stop: 62460, Start Num: 2
Candidate Starts for RosiePosie_95:
(Start: 2 @62047 has 18 MA's), (Start: 3 @62050 has 1 MA's), (5, 62077), (7, 62086), (8, 62092), (11, 62104), (13, 62116), (17, 62158), (18, 62182), (22, 62242), (23, 62278), (26, 62308), (28, 62359), (30, 62401), (33, 62440),

Gene: Scavito_96 Start: 62040, Stop: 62453, Start Num: 2
Candidate Starts for Scavito_96:
(Start: 2 @62040 has 18 MA's), (Start: 3 @62043 has 1 MA's), (5, 62070), (7, 62079), (8, 62085), (11, 62097), (13, 62109), (17, 62151), (18, 62175), (22, 62235), (23, 62271), (26, 62301), (28, 62352), (30, 62394), (33, 62433),

Gene: Tophat_96 Start: 62229, Stop: 62642, Start Num: 2
Candidate Starts for Tophat_96:
(Start: 2 @62229 has 18 MA's), (Start: 3 @62232 has 1 MA's), (5, 62259), (7, 62268), (8, 62274), (11, 62286), (13, 62298), (17, 62340), (18, 62364), (22, 62424), (23, 62460), (26, 62490), (28, 62541), (30,

62583), (33, 62622),