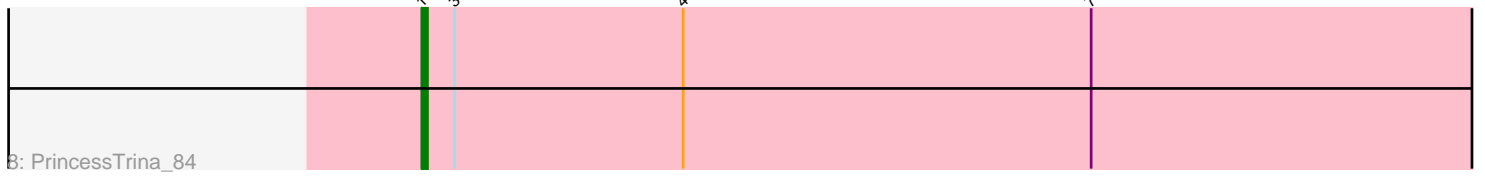
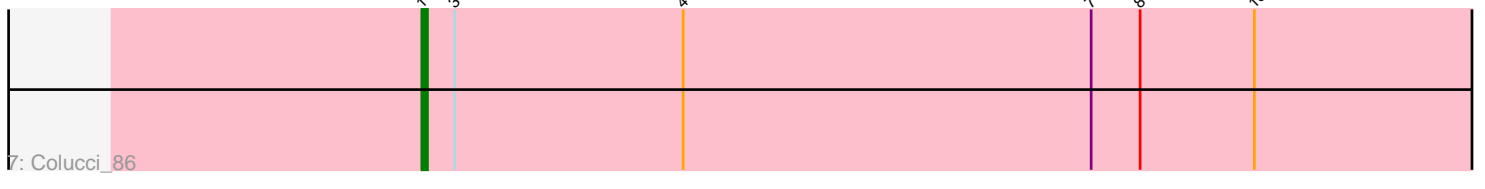
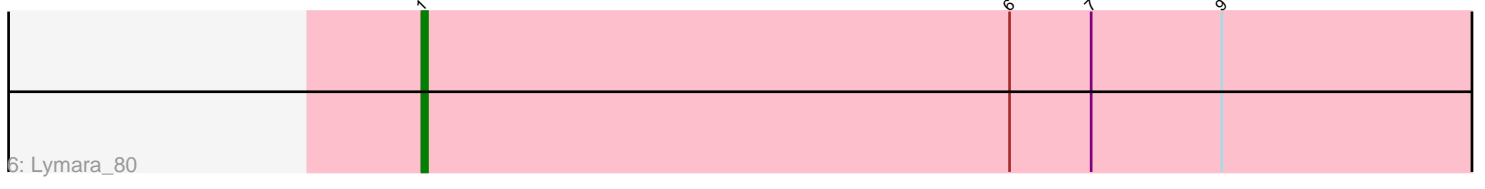
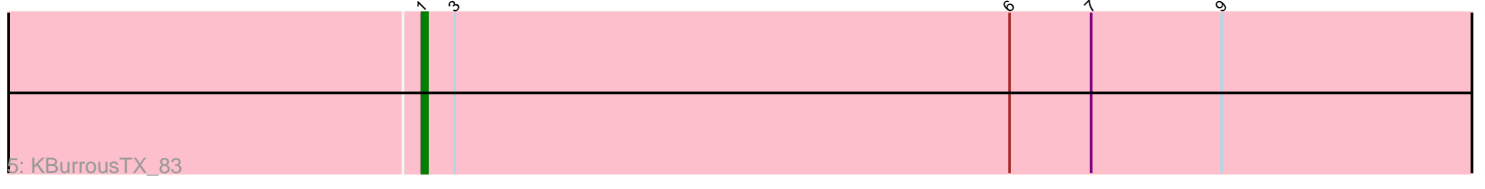
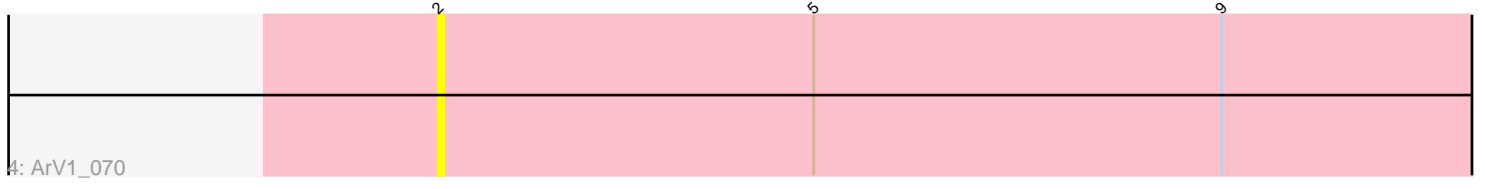
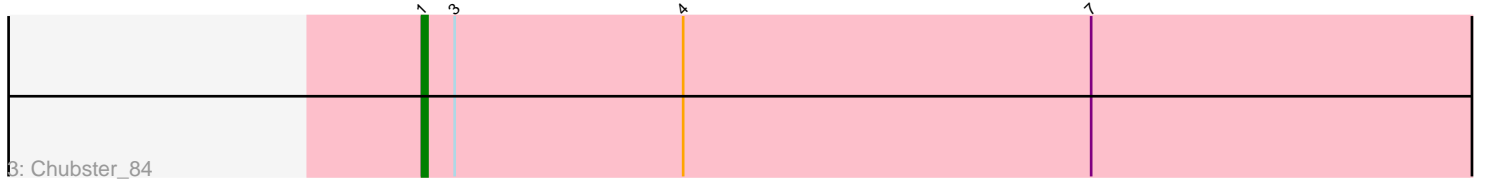
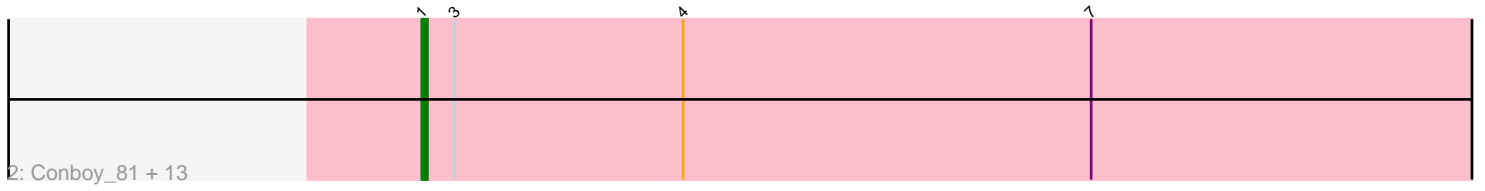
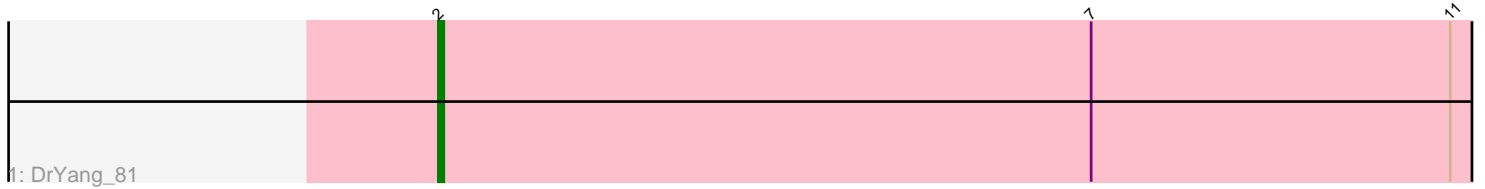


Zoomed Pham 216566



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 216566 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216566 has 21 members, 2 are drafts.

Phages represented in each track:

- Track 1 : DrYang_81
- Track 2 : Conboy_81, Chocolat_83, Tophat_84, HumptyDumpty_83, MoyaNatalis_82, Chipper1996_840, Kabreeze_83, Linus_83, EdgarPoe_82, RosiePosie_83, JayCookie_83, Scavito_84, Mordred_83, JaNo_82
- Track 3 : Chubster_84
- Track 4 : ArV1_070
- Track 5 : KBurrousTX_83
- Track 6 : Lymara_80
- Track 7 : Colucci_86
- Track 8 : PrincessTrina_84

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

The start number called the most often in the published annotations is 1, it was called in 18 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chipper1996_840, Chocolat_83, Chubster_84, Colucci_86, Conboy_81, EdgarPoe_82, HumptyDumpty_83, JaNo_82, JayCookie_83, KBurrousTX_83, Kabreeze_83, Linus_83, Lymara_80, Mordred_83, MoyaNatalis_82, PrincessTrina_84, RosiePosie_83, Scavito_84, Tophat_84,

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

-

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

- ArV1_070, DrYang_81,

Summary by start number:

Start 1:

- Found in 19 of 21 (90.5%) of genes in pham
- Manual Annotations of this start: 18 of 19
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Chipper1996_840 (AR), Chocolat_83 (AR), Chubster_84 (AR), Colucci_86 (AR), Conboy_81 (AR), EdgarPoe_82 (AR), HumptyDumpty_83 (AR), JaNo_82 (AR), JayCookie_83 (AR), KBurrousTX_83 (AR), Kabreeze_83 (AR), Linus_83 (AR), Lymara_80 (AR), Mordred_83 (AR), MoyaNatalis_82 (AR), PrincessTrina_84 (AR), RosiePosie_83 (AR), Scavito_84 (AR), Tophat_84 (AR),

Start 2:

- Found in 2 of 21 (9.5%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV1_070 (AR), DrYang_81 (AR),

Summary by clusters:

There is one cluster represented in this pham: AR

Info for manual annotations of cluster AR:

- Start number 1 was manually annotated 18 times for cluster AR.
- Start number 2 was manually annotated 1 time for cluster AR.

Gene Information:

Gene: ArV1_070 Start: 54700, Stop: 55125, Start Num: 2

Candidate Starts for ArV1_070:

(Start: 2 @54700 has 1 MA's), (5, 54769), (9, 54844), (12, 54895), (13, 54934), (14, 54940), (17, 54991), (20, 55108), (22, 55114),

Gene: Chipper1996_840 Start: 56185, Stop: 56757, Start Num: 1

Candidate Starts for Chipper1996_840:

(Start: 1 @56185 has 18 MA's), (3, 56191), (4, 56233), (7, 56308), (13, 56422), (19, 56560), (21, 56599), (22, 56602), (23, 56614), (26, 56647), (32, 56707), (33, 56722), (34, 56740), (36, 56746),

Gene: Chocolat_83 Start: 55892, Stop: 56464, Start Num: 1

Candidate Starts for Chocolat_83:

(Start: 1 @55892 has 18 MA's), (3, 55898), (4, 55940), (7, 56015), (13, 56129), (19, 56267), (21, 56306), (22, 56309), (23, 56321), (26, 56354), (32, 56414), (33, 56429), (34, 56447), (36, 56453),

Gene: Chubster_84 Start: 56541, Stop: 57113, Start Num: 1

Candidate Starts for Chubster_84:

(Start: 1 @56541 has 18 MA's), (3, 56547), (4, 56589), (7, 56664), (13, 56778), (19, 56916), (21, 56955), (22, 56958), (23, 56970), (26, 57003), (27, 57006), (32, 57063), (34, 57096), (36, 57102),

Gene: Colucci_86 Start: 56549, Stop: 57118, Start Num: 1

Candidate Starts for Colucci_86:

(Start: 1 @56549 has 18 MA's), (3, 56555), (4, 56597), (7, 56672), (8, 56681), (10, 56702), (13, 56786), (19, 56924), (21, 56963), (22, 56966), (31, 57056), (32, 57068), (33, 57083), (35, 57104), (36, 57107),

Gene: Conboy_81 Start: 55641, Stop: 56213, Start Num: 1

Candidate Starts for Conboy_81:

(Start: 1 @55641 has 18 MA's), (3, 55647), (4, 55689), (7, 55764), (13, 55878), (19, 56016), (21, 56055), (22, 56058), (23, 56070), (26, 56103), (32, 56163), (33, 56178), (34, 56196), (36, 56202),

Gene: DrYang_81 Start: 56419, Stop: 56859, Start Num: 2

Candidate Starts for DrYang_81:

(Start: 2 @56419 has 1 MA's), (7, 56539), (11, 56605), (12, 56614), (16, 56695), (17, 56710), (20, 56827), (22, 56833), (24, 56854),

Gene: EdgarPoe_82 Start: 56049, Stop: 56621, Start Num: 1

Candidate Starts for EdgarPoe_82:

(Start: 1 @56049 has 18 MA's), (3, 56055), (4, 56097), (7, 56172), (13, 56286), (19, 56424), (21, 56463), (22, 56466), (23, 56478), (26, 56511), (32, 56571), (33, 56586), (34, 56604), (36, 56610),

Gene: HumptyDumpty_83 Start: 55852, Stop: 56424, Start Num: 1

Candidate Starts for HumptyDumpty_83:

(Start: 1 @55852 has 18 MA's), (3, 55858), (4, 55900), (7, 55975), (13, 56089), (19, 56227), (21, 56266), (22, 56269), (23, 56281), (26, 56314), (32, 56374), (33, 56389), (34, 56407), (36, 56413),

Gene: JaNo_82 Start: 55823, Stop: 56395, Start Num: 1

Candidate Starts for JaNo_82:

(Start: 1 @55823 has 18 MA's), (3, 55829), (4, 55871), (7, 55946), (13, 56060), (19, 56198), (21, 56237), (22, 56240), (23, 56252), (26, 56285), (32, 56345), (33, 56360), (34, 56378), (36, 56384),

Gene: JayCookie_83 Start: 56385, Stop: 56957, Start Num: 1

Candidate Starts for JayCookie_83:

(Start: 1 @56385 has 18 MA's), (3, 56391), (4, 56433), (7, 56508), (13, 56622), (19, 56760), (21, 56799), (22, 56802), (23, 56814), (26, 56847), (32, 56907), (33, 56922), (34, 56940), (36, 56946),

Gene: KBurrousTX_83 Start: 57872, Stop: 58489, Start Num: 1

Candidate Starts for KBurrousTX_83:

(Start: 1 @57872 has 18 MA's), (3, 57878), (6, 57980), (7, 57995), (9, 58019), (13, 58109), (15, 58139), (16, 58151), (20, 58283), (22, 58289), (28, 58352), (29, 58355), (30, 58364), (35, 58433), (37, 58475),

Gene: Kabreeze_83 Start: 55909, Stop: 56481, Start Num: 1

Candidate Starts for Kabreeze_83:

(Start: 1 @55909 has 18 MA's), (3, 55915), (4, 55957), (7, 56032), (13, 56146), (19, 56284), (21, 56323), (22, 56326), (23, 56338), (26, 56371), (32, 56431), (33, 56446), (34, 56464), (36, 56470),

Gene: Linus_83 Start: 56357, Stop: 56929, Start Num: 1

Candidate Starts for Linus_83:

(Start: 1 @56357 has 18 MA's), (3, 56363), (4, 56405), (7, 56480), (13, 56594), (19, 56732), (21, 56771), (22, 56774), (23, 56786), (26, 56819), (32, 56879), (33, 56894), (34, 56912), (36, 56918),

Gene: Lymara_80 Start: 54875, Stop: 55447, Start Num: 1

Candidate Starts for Lymara_80:

(Start: 1 @54875 has 18 MA's), (6, 54983), (7, 54998), (9, 55022), (18, 55217), (19, 55250), (21, 55289), (22, 55292), (23, 55304), (25, 55319), (26, 55337), (32, 55397), (33, 55412), (36, 55436),

Gene: Mordred_83 Start: 55948, Stop: 56520, Start Num: 1

Candidate Starts for Mordred_83:

(Start: 1 @55948 has 18 MA's), (3, 55954), (4, 55996), (7, 56071), (13, 56185), (19, 56323), (21, 56362), (22, 56365), (23, 56377), (26, 56410), (32, 56470), (33, 56485), (34, 56503), (36, 56509),

Gene: MoyaNatalis_82 Start: 55831, Stop: 56403, Start Num: 1

Candidate Starts for MoyaNatalis_82:

(Start: 1 @55831 has 18 MA's), (3, 55837), (4, 55879), (7, 55954), (13, 56068), (19, 56206), (21, 56245), (22, 56248), (23, 56260), (26, 56293), (32, 56353), (33, 56368), (34, 56386), (36, 56392),

Gene: PrincessTrina_84 Start: 56133, Stop: 56705, Start Num: 1

Candidate Starts for PrincessTrina_84:

(Start: 1 @56133 has 18 MA's), (3, 56139), (4, 56181), (7, 56256), (13, 56370), (19, 56508), (21, 56547), (22, 56550), (23, 56562), (26, 56595), (32, 56655), (33, 56670), (34, 56688),

Gene: RosiePosie_83 Start: 56004, Stop: 56576, Start Num: 1

Candidate Starts for RosiePosie_83:

(Start: 1 @56004 has 18 MA's), (3, 56010), (4, 56052), (7, 56127), (13, 56241), (19, 56379), (21, 56418), (22, 56421), (23, 56433), (26, 56466), (32, 56526), (33, 56541), (34, 56559), (36, 56565),

Gene: Scavito_84 Start: 55997, Stop: 56569, Start Num: 1

Candidate Starts for Scavito_84:

(Start: 1 @55997 has 18 MA's), (3, 56003), (4, 56045), (7, 56120), (13, 56234), (19, 56372), (21, 56411), (22, 56414), (23, 56426), (26, 56459), (32, 56519), (33, 56534), (34, 56552), (36, 56558),

Gene: Tophat_84 Start: 56186, Stop: 56758, Start Num: 1

Candidate Starts for Tophat_84:

(Start: 1 @56186 has 18 MA's), (3, 56192), (4, 56234), (7, 56309), (13, 56423), (19, 56561), (21, 56600), (22, 56603), (23, 56615), (26, 56648), (32, 56708), (33, 56723), (34, 56741), (36, 56747),