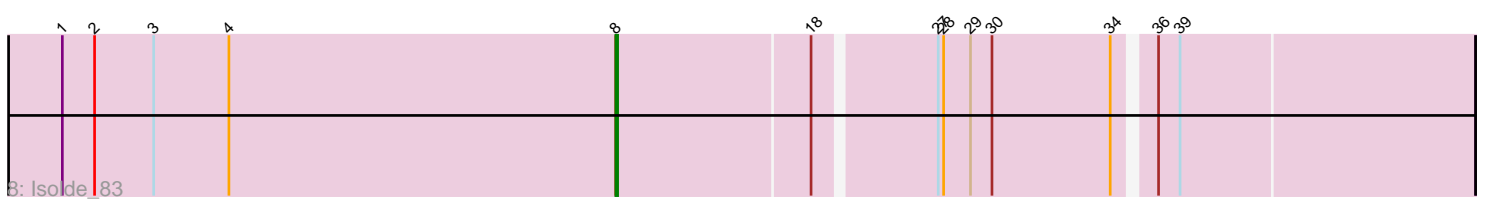
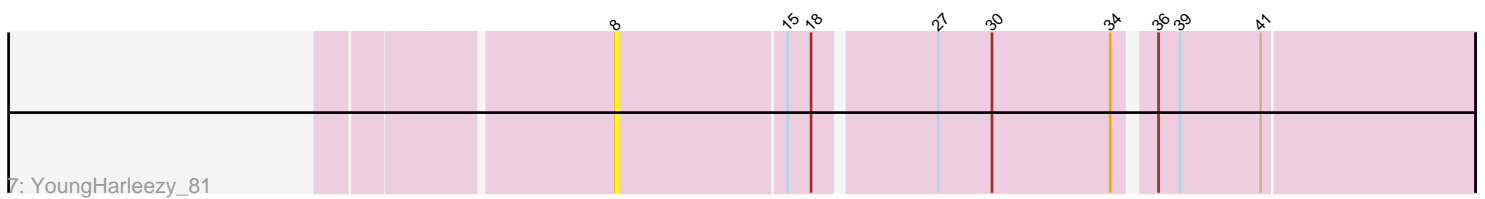
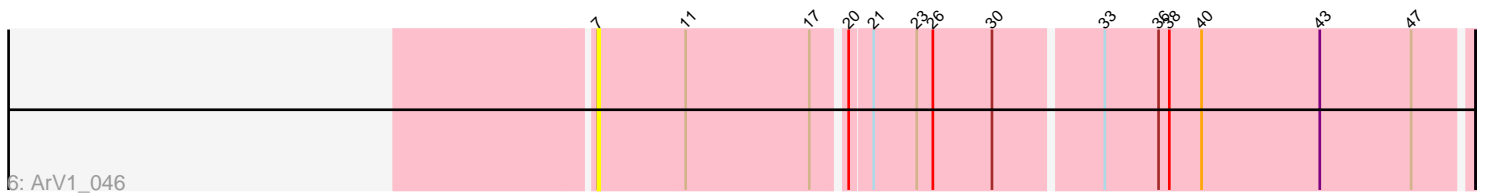
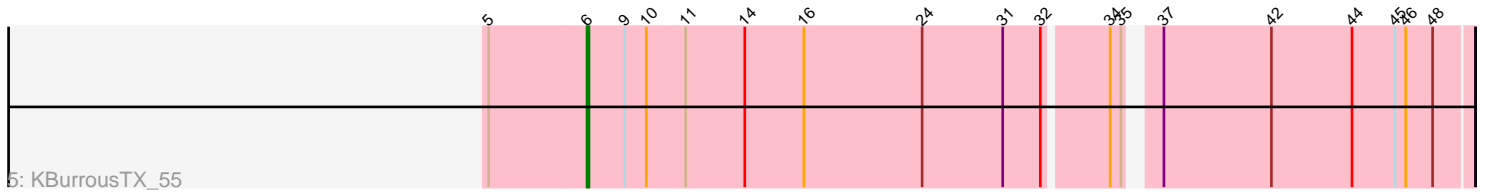
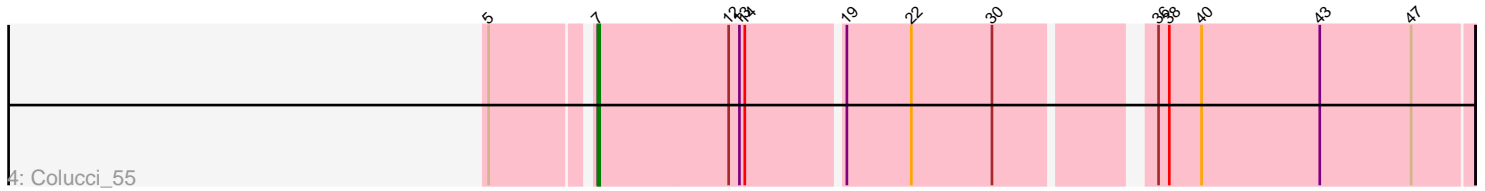
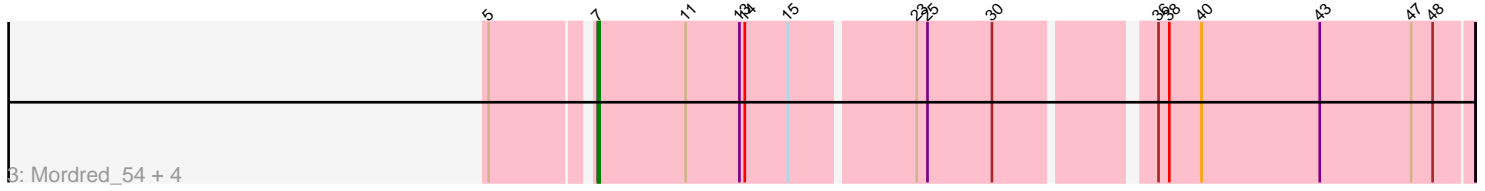
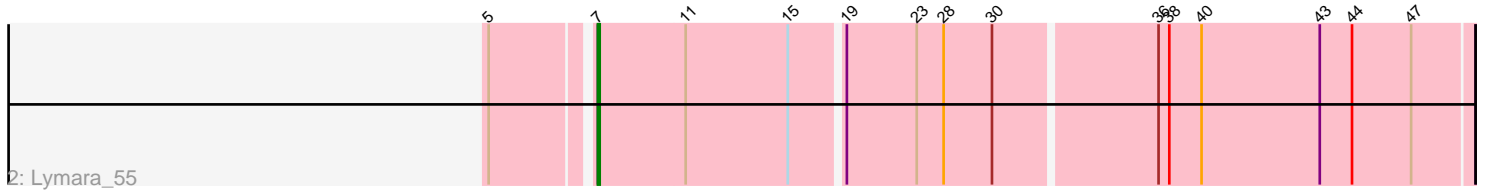
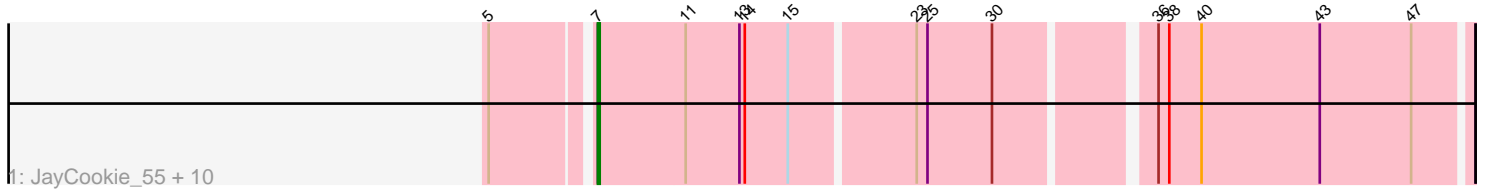


Pham 163915



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 163915 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163915 has 22 members, 4 are drafts.

Phages represented in each track:

- Track 1 : JayCookie_55, Chubster_55, RosiePosie_54, PrincessTrina_54, EdgarPoe_54, Linus_54, Conboy_54, Kabreeze_54, Chocolat_54, Scavito_54, MoyaNatalis_54
- Track 2 : Lymara_55
- Track 3 : Mordred_54, Chipper1996_540, Tophat_54, HumptyDumpty_54, JaNo_54
- Track 4 : Colucci_55
- Track 5 : KBurrousTX_55
- Track 6 : ArV1_046
- Track 7 : YoungHarleezy_81
- Track 8 : Isolde_83

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

The start number called the most often in the published annotations is 7, it was called in 16 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ArV1_046, Chipper1996_540, Chocolat_54, Chubster_55, Colucci_55, Conboy_54, EdgarPoe_54, HumptyDumpty_54, JaNo_54, JayCookie_55, Kabreeze_54, Linus_54, Lymara_55, Mordred_54, MoyaNatalis_54, PrincessTrina_54, RosiePosie_54, Scavito_54, Tophat_54,

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

-

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

- Isolde_83, KBurrousTX_55, YoungHarleezy_81,

Summary by start number:

Start 6:

- Found in 1 of 22 (4.5%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present

- Phage (with cluster) where this start called: KBurrousTX_55 (AR),

Start 7:

- Found in 19 of 22 (86.4%) of genes in pham
- Manual Annotations of this start: 16 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV1_046 (AR), Chipper1996_540 (AR), Chocolat_54 (AR), Chubster_55 (AR), Colucci_55 (AR), Conboy_54 (AR), EdgarPoe_54 (AR), HumptyDumpty_54 (AR), JaNo_54 (AR), JayCookie_55 (AR), Kabreeze_54 (AR), Linus_54 (AR), Lymara_55 (AR), Mordred_54 (AR), MoyaNatalis_54 (AR), PrincessTrina_54 (AR), RosiePosie_54 (AR), Scavito_54 (AR), Tophat_54 (AR),

Start 8:

- Found in 2 of 22 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Isolde_83 (AY), YoungHarleezy_81 (AY),

Summary by clusters:

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

Info for manual annotations of cluster AR:

- Start number 6 was manually annotated 1 time for cluster AR.
- Start number 7 was manually annotated 16 times for cluster AR.

Info for manual annotations of cluster AY:

- Start number 8 was manually annotated 1 time for cluster AY.

Gene Information:

Gene: ArV1_046 Start: 40192, Stop: 40659, Start Num: 7

Candidate Starts for ArV1_046:

(Start: 7 @40192 has 16 MA's), (11, 40240), (17, 40309), (20, 40324), (21, 40336), (23, 40360), (26, 40369), (30, 40402), (33, 40459), (36, 40489), (38, 40495), (40, 40513), (43, 40579), (47, 40630),

Gene: Chipper1996_540 Start: 41114, Stop: 41578, Start Num: 7

Candidate Starts for Chipper1996_540:

(5, 41063), (Start: 7 @41114 has 16 MA's), (11, 41162), (13, 41192), (14, 41195), (15, 41219), (23, 41285), (25, 41291), (30, 41327), (36, 41405), (38, 41411), (40, 41429), (43, 41495), (47, 41546), (48, 41558),

Gene: Chocolat_54 Start: 41094, Stop: 41555, Start Num: 7

Candidate Starts for Chocolat_54:

(5, 41043), (Start: 7 @41094 has 16 MA's), (11, 41142), (13, 41172), (14, 41175), (15, 41199), (23, 41265), (25, 41271), (30, 41307), (36, 41385), (38, 41391), (40, 41409), (43, 41475), (47, 41526),

Gene: Chubster_55 Start: 41246, Stop: 41707, Start Num: 7

Candidate Starts for Chubster_55:

(5, 41195), (Start: 7 @41246 has 16 MA's), (11, 41294), (13, 41324), (14, 41327), (15, 41351), (23, 41417), (25, 41423), (30, 41459), (36, 41537), (38, 41543), (40, 41561), (43, 41627), (47, 41678),

Gene: Colucci_55 Start: 41190, Stop: 41651, Start Num: 7

Candidate Starts for Colucci_55:

(5, 41139), (Start: 7 @41190 has 16 MA's), (12, 41262), (13, 41268), (14, 41271), (19, 41322), (22, 41358), (30, 41403), (36, 41478), (38, 41484), (40, 41502), (43, 41568), (47, 41619),

Gene: Conboy_54 Start: 41242, Stop: 41703, Start Num: 7

Candidate Starts for Conboy_54:

(5, 41191), (Start: 7 @41242 has 16 MA's), (11, 41290), (13, 41320), (14, 41323), (15, 41347), (23, 41413), (25, 41419), (30, 41455), (36, 41533), (38, 41539), (40, 41557), (43, 41623), (47, 41674),

Gene: EdgarPoe_54 Start: 41242, Stop: 41703, Start Num: 7

Candidate Starts for EdgarPoe_54:

(5, 41191), (Start: 7 @41242 has 16 MA's), (11, 41290), (13, 41320), (14, 41323), (15, 41347), (23, 41413), (25, 41419), (30, 41455), (36, 41533), (38, 41539), (40, 41557), (43, 41623), (47, 41674),

Gene: HumptyDumpty_54 Start: 41112, Stop: 41576, Start Num: 7

Candidate Starts for HumptyDumpty_54:

(5, 41061), (Start: 7 @41112 has 16 MA's), (11, 41160), (13, 41190), (14, 41193), (15, 41217), (23, 41283), (25, 41289), (30, 41325), (36, 41403), (38, 41409), (40, 41427), (43, 41493), (47, 41544), (48, 41556),

Gene: Isolde_83 Start: 47822, Stop: 48277, Start Num: 8

Candidate Starts for Isolde_83:

(1, 47513), (2, 47531), (3, 47564), (4, 47606), (Start: 8 @47822 has 1 MA's), (18, 47927), (27, 47990), (28, 47993), (29, 48008), (30, 48020), (34, 48086), (36, 48104), (39, 48116),

Gene: JaNo_54 Start: 41118, Stop: 41582, Start Num: 7

Candidate Starts for JaNo_54:

(5, 41067), (Start: 7 @41118 has 16 MA's), (11, 41166), (13, 41196), (14, 41199), (15, 41223), (23, 41289), (25, 41295), (30, 41331), (36, 41409), (38, 41415), (40, 41433), (43, 41499), (47, 41550), (48, 41562),

Gene: JayCookie_55 Start: 41505, Stop: 41966, Start Num: 7

Candidate Starts for JayCookie_55:

(5, 41454), (Start: 7 @41505 has 16 MA's), (11, 41553), (13, 41583), (14, 41586), (15, 41610), (23, 41676), (25, 41682), (30, 41718), (36, 41796), (38, 41802), (40, 41820), (43, 41886), (47, 41937),

Gene: KBurrousTX_55 Start: 42517, Stop: 42990, Start Num: 6

Candidate Starts for KBurrousTX_55:

(5, 42463), (Start: 6 @42517 has 1 MA's), (9, 42538), (10, 42550), (11, 42571), (14, 42604), (16, 42637), (24, 42703), (31, 42748), (32, 42769), (34, 42802), (35, 42808), (37, 42820), (42, 42880), (44, 42925), (45, 42949), (46, 42955), (48, 42970),

Gene: Kabreeze_54 Start: 41112, Stop: 41573, Start Num: 7

Candidate Starts for Kabreeze_54:

(5, 41061), (Start: 7 @41112 has 16 MA's), (11, 41160), (13, 41190), (14, 41193), (15, 41217), (23, 41283), (25, 41289), (30, 41325), (36, 41403), (38, 41409), (40, 41427), (43, 41493), (47, 41544),

Gene: Linus_54 Start: 41235, Stop: 41696, Start Num: 7

Candidate Starts for Linus_54:

(5, 41184), (Start: 7 @41235 has 16 MA's), (11, 41283), (13, 41313), (14, 41316), (15, 41340), (23, 41406), (25, 41412), (30, 41448), (36, 41526), (38, 41532), (40, 41550), (43, 41616), (47, 41667),

Gene: Lymara_55 Start: 41454, Stop: 41927, Start Num: 7

Candidate Starts for Lymara_55:

(5, 41403), (Start: 7 @41454 has 16 MA's), (11, 41502), (15, 41559), (19, 41586), (23, 41625), (28, 41640), (30, 41667), (36, 41754), (38, 41760), (40, 41778), (43, 41844), (44, 41862), (47, 41895),

Gene: Mordred_54 Start: 41112, Stop: 41576, Start Num: 7

Candidate Starts for Mordred_54:

(5, 41061), (Start: 7 @41112 has 16 MA's), (11, 41160), (13, 41190), (14, 41193), (15, 41217), (23, 41283), (25, 41289), (30, 41325), (36, 41403), (38, 41409), (40, 41427), (43, 41493), (47, 41544), (48, 41556),

Gene: MoyaNatalis_54 Start: 41081, Stop: 41542, Start Num: 7

Candidate Starts for MoyaNatalis_54:

(5, 41030), (Start: 7 @41081 has 16 MA's), (11, 41129), (13, 41159), (14, 41162), (15, 41186), (23, 41252), (25, 41258), (30, 41294), (36, 41372), (38, 41378), (40, 41396), (43, 41462), (47, 41513),

Gene: PrincessTrina_54 Start: 41258, Stop: 41719, Start Num: 7

Candidate Starts for PrincessTrina_54:

(5, 41207), (Start: 7 @41258 has 16 MA's), (11, 41306), (13, 41336), (14, 41339), (15, 41363), (23, 41429), (25, 41435), (30, 41471), (36, 41549), (38, 41555), (40, 41573), (43, 41639), (47, 41690),

Gene: RosiePosie_54 Start: 41115, Stop: 41576, Start Num: 7

Candidate Starts for RosiePosie_54:

(5, 41064), (Start: 7 @41115 has 16 MA's), (11, 41163), (13, 41193), (14, 41196), (15, 41220), (23, 41286), (25, 41292), (30, 41328), (36, 41406), (38, 41412), (40, 41430), (43, 41496), (47, 41547),

Gene: Scavito_54 Start: 41119, Stop: 41580, Start Num: 7

Candidate Starts for Scavito_54:

(5, 41068), (Start: 7 @41119 has 16 MA's), (11, 41167), (13, 41197), (14, 41200), (15, 41224), (23, 41290), (25, 41296), (30, 41332), (36, 41410), (38, 41416), (40, 41434), (43, 41500), (47, 41551),

Gene: Tophat_54 Start: 41114, Stop: 41578, Start Num: 7

Candidate Starts for Tophat_54:

(5, 41063), (Start: 7 @41114 has 16 MA's), (11, 41162), (13, 41192), (14, 41195), (15, 41219), (23, 41285), (25, 41291), (30, 41327), (36, 41405), (38, 41411), (40, 41429), (43, 41495), (47, 41546), (48, 41558),

Gene: YoungHarleezy_81 Start: 47460, Stop: 47915, Start Num: 8

Candidate Starts for YoungHarleezy_81:

(Start: 8 @47460 has 1 MA's), (15, 47553), (18, 47565), (27, 47628), (30, 47658), (34, 47724), (36, 47742), (39, 47754), (41, 47799),