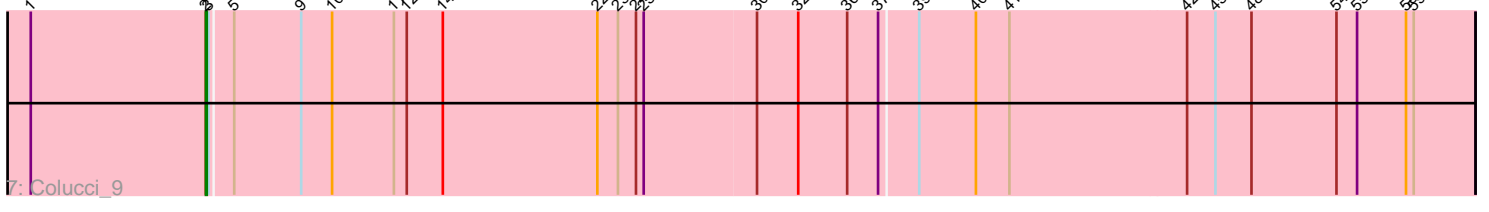
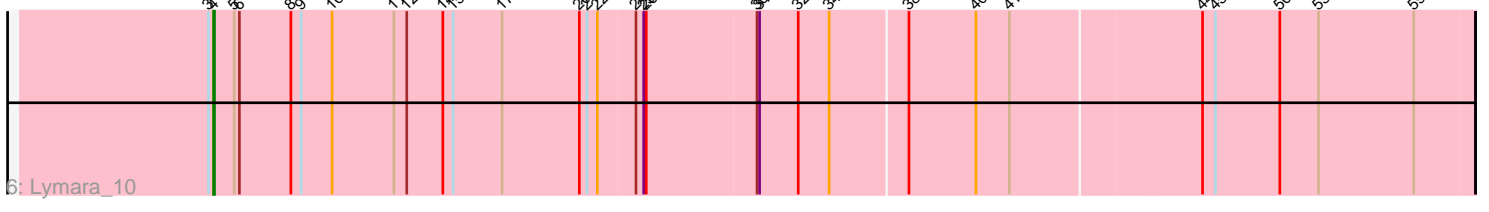
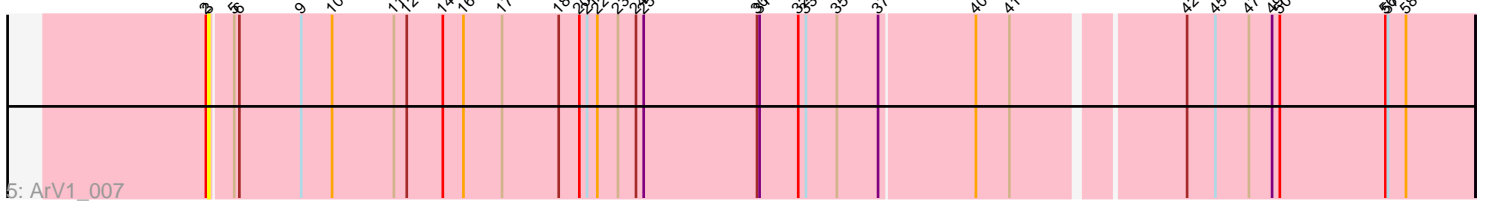
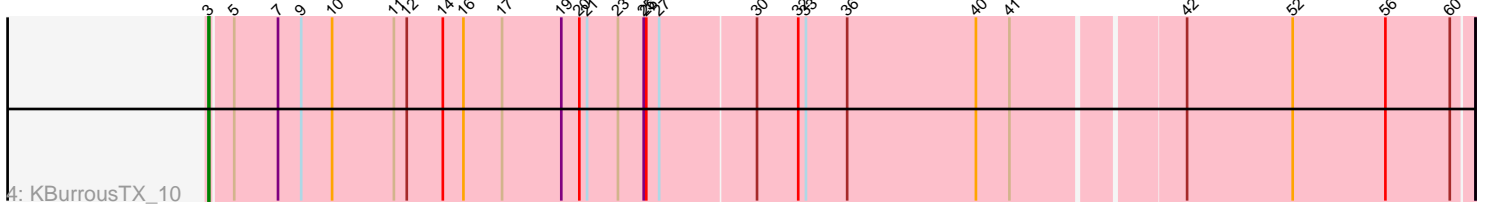
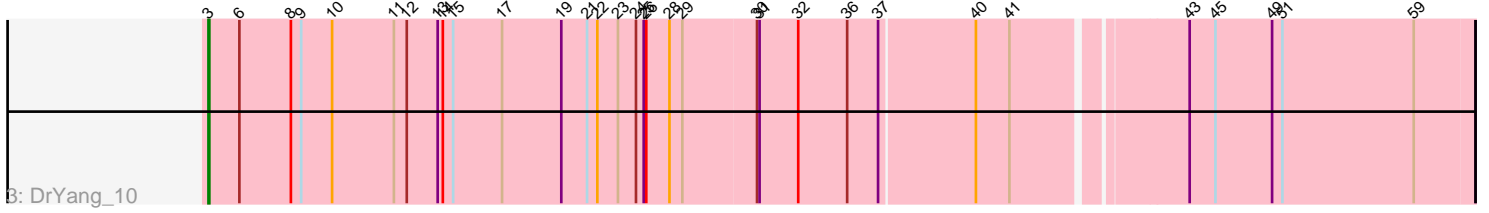
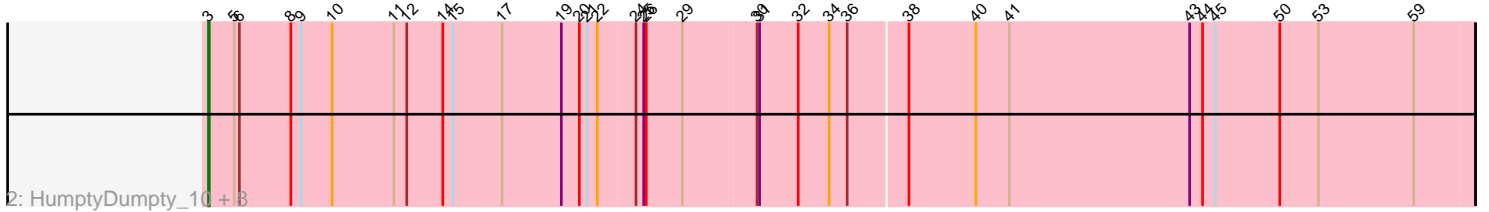
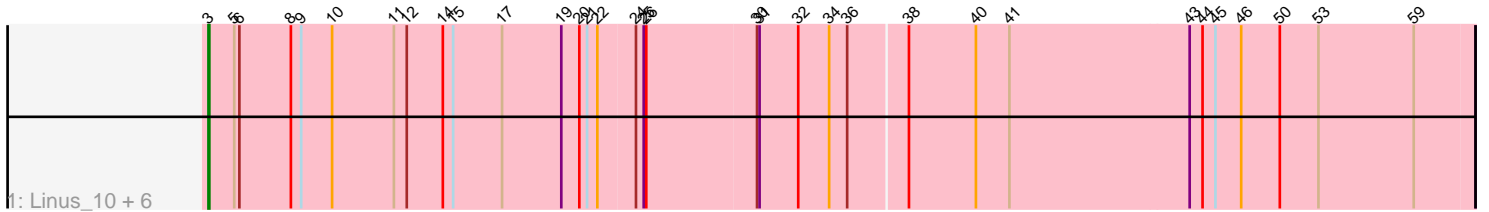


Pham 163926



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 163926 Report

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

Pham number 163926 has 21 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Linus\_10, Chubster\_10, Chocolat\_10, RosiePosie\_10, PrincessTrina\_10, JayCookie\_10, MoyaNatalis\_10
- Track 2 : HumptyDumpty\_10, JaNo\_10, Tophat\_10, Conboy\_10, Kabreeze\_10, Mordred\_10, EdgarPoe\_10, Scavito\_10, Chipper1996\_100
- Track 3 : DrYang\_10
- Track 4 : KBurrousTX\_10
- Track 5 : ArV1\_007
- Track 6 : Lymara\_10
- Track 7 : Colucci\_9

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

The start number called the most often in the published annotations is 3, it was called in 16 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ArV1\_007, Chipper1996\_100, Chocolat\_10, Chubster\_10, Conboy\_10, DrYang\_10, EdgarPoe\_10, HumptyDumpty\_10, JaNo\_10, JayCookie\_10, KBurrousTX\_10, Kabreeze\_10, Linus\_10, Mordred\_10, MoyaNatalis\_10, PrincessTrina\_10, RosiePosie\_10, Scavito\_10, Tophat\_10,

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

- Colucci\_9, Lymara\_10,

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

- 

### **Summary by start number:**

Start 2:

- Found in 2 of 21 ( 9.5% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Colucci\_9 (AR),

Start 3:

- Found in 21 of 21 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 16 of 18
- Called 90.5% of time when present
- Phage (with cluster) where this start called: ArV1\_007 (AR), Chipper1996\_100 (AR), Chocolat\_10 (AR), Chubster\_10 (AR), Conboy\_10 (AR), DrYang\_10 (AR), EdgarPoe\_10 (AR), HumptyDumpty\_10 (AR), JaNo\_10 (AR), JayCookie\_10 (AR), KBurrousTX\_10 (AR), Kabreeze\_10 (AR), Linus\_10 (AR), Mordred\_10 (AR), MoyaNatalis\_10 (AR), PrincessTrina\_10 (AR), RosiePosie\_10 (AR), Scavito\_10 (AR), Tophat\_10 (AR),

Start 4:

- Found in 1 of 21 ( 4.8% ) 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: Lymara\_10 (AR),

**Summary by clusters:**

There is one cluster represented in this pham: AR

Info for manual annotations of cluster AR:

- Start number 2 was manually annotated 1 time for cluster AR.
- Start number 3 was manually annotated 16 times for cluster AR.
- Start number 4 was manually annotated 1 time for cluster AR.

**Gene Information:**

Gene: ArV1\_007 Start: 6192, Stop: 7631, Start Num: 3

Candidate Starts for ArV1\_007:

(Start: 2 @6189 has 1 MA's), (Start: 3 @6192 has 16 MA's), (5, 6216), (6, 6222), (9, 6294), (10, 6330), (11, 6402), (12, 6417), (14, 6459), (16, 6483), (17, 6528), (18, 6594), (20, 6618), (21, 6627), (22, 6639), (23, 6663), (24, 6684), (25, 6693), (30, 6825), (31, 6828), (32, 6873), (33, 6882), (35, 6918), (37, 6966), (40, 7074), (41, 7113), (42, 7296), (45, 7329), (47, 7368), (49, 7395), (50, 7404), (56, 7527), (57, 7530), (58, 7551),

Gene: Chipper1996\_100 Start: 7819, Stop: 9273, Start Num: 3

Candidate Starts for Chipper1996\_100:

(Start: 3 @7819 has 16 MA's), (5, 7846), (6, 7852), (8, 7912), (9, 7924), (10, 7960), (11, 8032), (12, 8047), (14, 8089), (15, 8101), (17, 8158), (19, 8227), (20, 8248), (21, 8257), (22, 8269), (24, 8311), (25, 8320), (26, 8323), (29, 8365), (30, 8449), (31, 8452), (32, 8497), (34, 8533), (36, 8554), (38, 8620), (40, 8698), (41, 8737), (43, 8944), (44, 8959), (45, 8974), (50, 9049), (53, 9094), (59, 9205),

Gene: Chocolat\_10 Start: 7817, Stop: 9271, Start Num: 3

Candidate Starts for Chocolat\_10:

(Start: 3 @7817 has 16 MA's), (5, 7844), (6, 7850), (8, 7910), (9, 7922), (10, 7958), (11, 8030), (12, 8045), (14, 8087), (15, 8099), (17, 8156), (19, 8225), (20, 8246), (21, 8255), (22, 8267), (24, 8309), (25, 8318), (26, 8321), (30, 8447), (31, 8450), (32, 8495), (34, 8531), (36, 8552), (38, 8618), (40, 8696), (41, 8735), (43, 8942), (44, 8957), (45, 8972), (46, 9002), (50, 9047), (53, 9092), (59, 9203),

Gene: Chubster\_10 Start: 7587, Stop: 9041, Start Num: 3

Candidate Starts for Chubster\_10:

(Start: 3 @7587 has 16 MA's), (5, 7614), (6, 7620), (8, 7680), (9, 7692), (10, 7728), (11, 7800), (12, 7815), (14, 7857), (15, 7869), (17, 7926), (19, 7995), (20, 8016), (21, 8025), (22, 8037), (24, 8079), (25, 8088), (26, 8091), (30, 8217), (31, 8220), (32, 8265), (34, 8301), (36, 8322), (38, 8388), (40, 8466), (41, 8505), (43, 8712), (44, 8727), (45, 8742), (46, 8772), (50, 8817), (53, 8862), (59, 8973),

Gene: Colucci\_9 Start: 7314, Stop: 8774, Start Num: 2

Candidate Starts for Colucci\_9:

(1, 7113), (Start: 2 @7314 has 1 MA's), (Start: 3 @7317 has 16 MA's), (5, 7341), (9, 7419), (10, 7455), (11, 7527), (12, 7542), (14, 7584), (22, 7764), (23, 7788), (24, 7809), (25, 7818), (30, 7947), (32, 7995), (36, 8052), (37, 8088), (39, 8130), (40, 8196), (41, 8235), (42, 8439), (45, 8472), (48, 8514), (54, 8613), (55, 8637), (58, 8694), (59, 8703),

Gene: Conboy\_10 Start: 7818, Stop: 9272, Start Num: 3

Candidate Starts for Conboy\_10:

(Start: 3 @7818 has 16 MA's), (5, 7845), (6, 7851), (8, 7911), (9, 7923), (10, 7959), (11, 8031), (12, 8046), (14, 8088), (15, 8100), (17, 8157), (19, 8226), (20, 8247), (21, 8256), (22, 8268), (24, 8310), (25, 8319), (26, 8322), (29, 8364), (30, 8448), (31, 8451), (32, 8496), (34, 8532), (36, 8553), (38, 8619), (40, 8697), (41, 8736), (43, 8943), (44, 8958), (45, 8973), (50, 9048), (53, 9093), (59, 9204),

Gene: DrYang\_10 Start: 7773, Stop: 9206, Start Num: 3

Candidate Starts for DrYang\_10:

(Start: 3 @7773 has 16 MA's), (6, 7806), (8, 7866), (9, 7878), (10, 7914), (11, 7986), (12, 8001), (13, 8037), (14, 8043), (15, 8055), (17, 8112), (19, 8181), (21, 8211), (22, 8223), (23, 8247), (24, 8268), (25, 8277), (26, 8280), (28, 8307), (29, 8322), (30, 8406), (31, 8409), (32, 8454), (36, 8511), (37, 8547), (40, 8655), (41, 8694), (43, 8877), (45, 8907), (49, 8973), (51, 8985), (59, 9138),

Gene: EdgarPoe\_10 Start: 7818, Stop: 9272, Start Num: 3

Candidate Starts for EdgarPoe\_10:

(Start: 3 @7818 has 16 MA's), (5, 7845), (6, 7851), (8, 7911), (9, 7923), (10, 7959), (11, 8031), (12, 8046), (14, 8088), (15, 8100), (17, 8157), (19, 8226), (20, 8247), (21, 8256), (22, 8268), (24, 8310), (25, 8319), (26, 8322), (29, 8364), (30, 8448), (31, 8451), (32, 8496), (34, 8532), (36, 8553), (38, 8619), (40, 8697), (41, 8736), (43, 8943), (44, 8958), (45, 8973), (50, 9048), (53, 9093), (59, 9204),

Gene: HumptyDumpty\_10 Start: 7817, Stop: 9271, Start Num: 3

Candidate Starts for HumptyDumpty\_10:

(Start: 3 @7817 has 16 MA's), (5, 7844), (6, 7850), (8, 7910), (9, 7922), (10, 7958), (11, 8030), (12, 8045), (14, 8087), (15, 8099), (17, 8156), (19, 8225), (20, 8246), (21, 8255), (22, 8267), (24, 8309), (25, 8318), (26, 8321), (29, 8363), (30, 8447), (31, 8450), (32, 8495), (34, 8531), (36, 8552), (38, 8618), (40, 8696), (41, 8735), (43, 8942), (44, 8957), (45, 8972), (50, 9047), (53, 9092), (59, 9203),

Gene: JaNo\_10 Start: 7817, Stop: 9271, Start Num: 3

Candidate Starts for JaNo\_10:

(Start: 3 @7817 has 16 MA's), (5, 7844), (6, 7850), (8, 7910), (9, 7922), (10, 7958), (11, 8030), (12, 8045), (14, 8087), (15, 8099), (17, 8156), (19, 8225), (20, 8246), (21, 8255), (22, 8267), (24, 8309), (25, 8318), (26, 8321), (29, 8363), (30, 8447), (31, 8450), (32, 8495), (34, 8531), (36, 8552), (38, 8618), (40, 8696), (41, 8735), (43, 8942), (44, 8957), (45, 8972), (50, 9047), (53, 9092), (59, 9203),

Gene: JayCookie\_10 Start: 7817, Stop: 9271, Start Num: 3

Candidate Starts for JayCookie\_10:

(Start: 3 @7817 has 16 MA's), (5, 7844), (6, 7850), (8, 7910), (9, 7922), (10, 7958), (11, 8030), (12, 8045), (14, 8087), (15, 8099), (17, 8156), (19, 8225), (20, 8246), (21, 8255), (22, 8267), (24, 8309),

(25, 8318), (26, 8321), (30, 8447), (31, 8450), (32, 8495), (34, 8531), (36, 8552), (38, 8618), (40, 8696), (41, 8735), (43, 8942), (44, 8957), (45, 8972), (46, 9002), (50, 9047), (53, 9092), (59, 9203),

Gene: KBurrousTX\_10 Start: 7618, Stop: 9051, Start Num: 3

Candidate Starts for KBurrousTX\_10:

(Start: 3 @7618 has 16 MA's), (5, 7642), (7, 7693), (9, 7720), (10, 7756), (11, 7828), (12, 7843), (14, 7885), (16, 7909), (17, 7954), (19, 8023), (20, 8044), (21, 8053), (23, 8089), (25, 8119), (26, 8122), (27, 8137), (30, 8245), (32, 8293), (33, 8302), (36, 8350), (40, 8500), (41, 8539), (42, 8722), (52, 8845), (56, 8953), (60, 9028),

Gene: Kabreeze\_10 Start: 7817, Stop: 9271, Start Num: 3

Candidate Starts for Kabreeze\_10:

(Start: 3 @7817 has 16 MA's), (5, 7844), (6, 7850), (8, 7910), (9, 7922), (10, 7958), (11, 8030), (12, 8045), (14, 8087), (15, 8099), (17, 8156), (19, 8225), (20, 8246), (21, 8255), (22, 8267), (24, 8309), (25, 8318), (26, 8321), (29, 8363), (30, 8447), (31, 8450), (32, 8495), (34, 8531), (36, 8552), (38, 8618), (40, 8696), (41, 8735), (43, 8942), (44, 8957), (45, 8972), (50, 9047), (53, 9092), (59, 9203),

Gene: Linus\_10 Start: 7814, Stop: 9268, Start Num: 3

Candidate Starts for Linus\_10:

(Start: 3 @7814 has 16 MA's), (5, 7841), (6, 7847), (8, 7907), (9, 7919), (10, 7955), (11, 8027), (12, 8042), (14, 8084), (15, 8096), (17, 8153), (19, 8222), (20, 8243), (21, 8252), (22, 8264), (24, 8306), (25, 8315), (26, 8318), (30, 8444), (31, 8447), (32, 8492), (34, 8528), (36, 8549), (38, 8615), (40, 8693), (41, 8732), (43, 8939), (44, 8954), (45, 8969), (46, 8999), (50, 9044), (53, 9089), (59, 9200),

Gene: Lymara\_10 Start: 7816, Stop: 9258, Start Num: 4

Candidate Starts for Lymara\_10:

(Start: 3 @7810 has 16 MA's), (Start: 4 @7816 has 1 MA's), (5, 7840), (6, 7846), (8, 7906), (9, 7918), (10, 7954), (11, 8026), (12, 8041), (14, 8083), (15, 8095), (17, 8152), (20, 8242), (21, 8251), (22, 8263), (24, 8305), (25, 8314), (26, 8317), (30, 8443), (31, 8446), (32, 8491), (34, 8527), (38, 8614), (40, 8692), (41, 8731), (44, 8944), (45, 8959), (50, 9034), (53, 9079), (59, 9190),

Gene: Mordred\_10 Start: 7817, Stop: 9271, Start Num: 3

Candidate Starts for Mordred\_10:

(Start: 3 @7817 has 16 MA's), (5, 7844), (6, 7850), (8, 7910), (9, 7922), (10, 7958), (11, 8030), (12, 8045), (14, 8087), (15, 8099), (17, 8156), (19, 8225), (20, 8246), (21, 8255), (22, 8267), (24, 8309), (25, 8318), (26, 8321), (29, 8363), (30, 8447), (31, 8450), (32, 8495), (34, 8531), (36, 8552), (38, 8618), (40, 8696), (41, 8735), (43, 8942), (44, 8957), (45, 8972), (50, 9047), (53, 9092), (59, 9203),

Gene: MoyaNatalis\_10 Start: 7817, Stop: 9271, Start Num: 3

Candidate Starts for MoyaNatalis\_10:

(Start: 3 @7817 has 16 MA's), (5, 7844), (6, 7850), (8, 7910), (9, 7922), (10, 7958), (11, 8030), (12, 8045), (14, 8087), (15, 8099), (17, 8156), (19, 8225), (20, 8246), (21, 8255), (22, 8267), (24, 8309), (25, 8318), (26, 8321), (30, 8447), (31, 8450), (32, 8495), (34, 8531), (36, 8552), (38, 8618), (40, 8696), (41, 8735), (43, 8942), (44, 8957), (45, 8972), (46, 9002), (50, 9047), (53, 9092), (59, 9203),

Gene: PrincessTrina\_10 Start: 7817, Stop: 9271, Start Num: 3

Candidate Starts for PrincessTrina\_10:

(Start: 3 @7817 has 16 MA's), (5, 7844), (6, 7850), (8, 7910), (9, 7922), (10, 7958), (11, 8030), (12, 8045), (14, 8087), (15, 8099), (17, 8156), (19, 8225), (20, 8246), (21, 8255), (22, 8267), (24, 8309), (25, 8318), (26, 8321), (30, 8447), (31, 8450), (32, 8495), (34, 8531), (36, 8552), (38, 8618), (40, 8696), (41, 8735), (43, 8942), (44, 8957), (45, 8972), (46, 9002), (50, 9047), (53, 9092), (59, 9203),

Gene: RosiePosie\_10 Start: 7817, Stop: 9271, Start Num: 3

Candidate Starts for RosiePosie\_10:

(Start: 3 @7817 has 16 MA's), (5, 7844), (6, 7850), (8, 7910), (9, 7922), (10, 7958), (11, 8030), (12, 8045), (14, 8087), (15, 8099), (17, 8156), (19, 8225), (20, 8246), (21, 8255), (22, 8267), (24, 8309), (25, 8318), (26, 8321), (30, 8447), (31, 8450), (32, 8495), (34, 8531), (36, 8552), (38, 8618), (40, 8696), (41, 8735), (43, 8942), (44, 8957), (45, 8972), (46, 9002), (50, 9047), (53, 9092), (59, 9203),

Gene: Scavito\_10 Start: 7817, Stop: 9271, Start Num: 3

Candidate Starts for Scavito\_10:

(Start: 3 @7817 has 16 MA's), (5, 7844), (6, 7850), (8, 7910), (9, 7922), (10, 7958), (11, 8030), (12, 8045), (14, 8087), (15, 8099), (17, 8156), (19, 8225), (20, 8246), (21, 8255), (22, 8267), (24, 8309), (25, 8318), (26, 8321), (29, 8363), (30, 8447), (31, 8450), (32, 8495), (34, 8531), (36, 8552), (38, 8618), (40, 8696), (41, 8735), (43, 8942), (44, 8957), (45, 8972), (50, 9047), (53, 9092), (59, 9203),

Gene: Tophat\_10 Start: 7819, Stop: 9273, Start Num: 3

Candidate Starts for Tophat\_10:

(Start: 3 @7819 has 16 MA's), (5, 7846), (6, 7852), (8, 7912), (9, 7924), (10, 7960), (11, 8032), (12, 8047), (14, 8089), (15, 8101), (17, 8158), (19, 8227), (20, 8248), (21, 8257), (22, 8269), (24, 8311), (25, 8320), (26, 8323), (29, 8365), (30, 8449), (31, 8452), (32, 8497), (34, 8533), (36, 8554), (38, 8620), (40, 8698), (41, 8737), (43, 8944), (44, 8959), (45, 8974), (50, 9049), (53, 9094), (59, 9205),