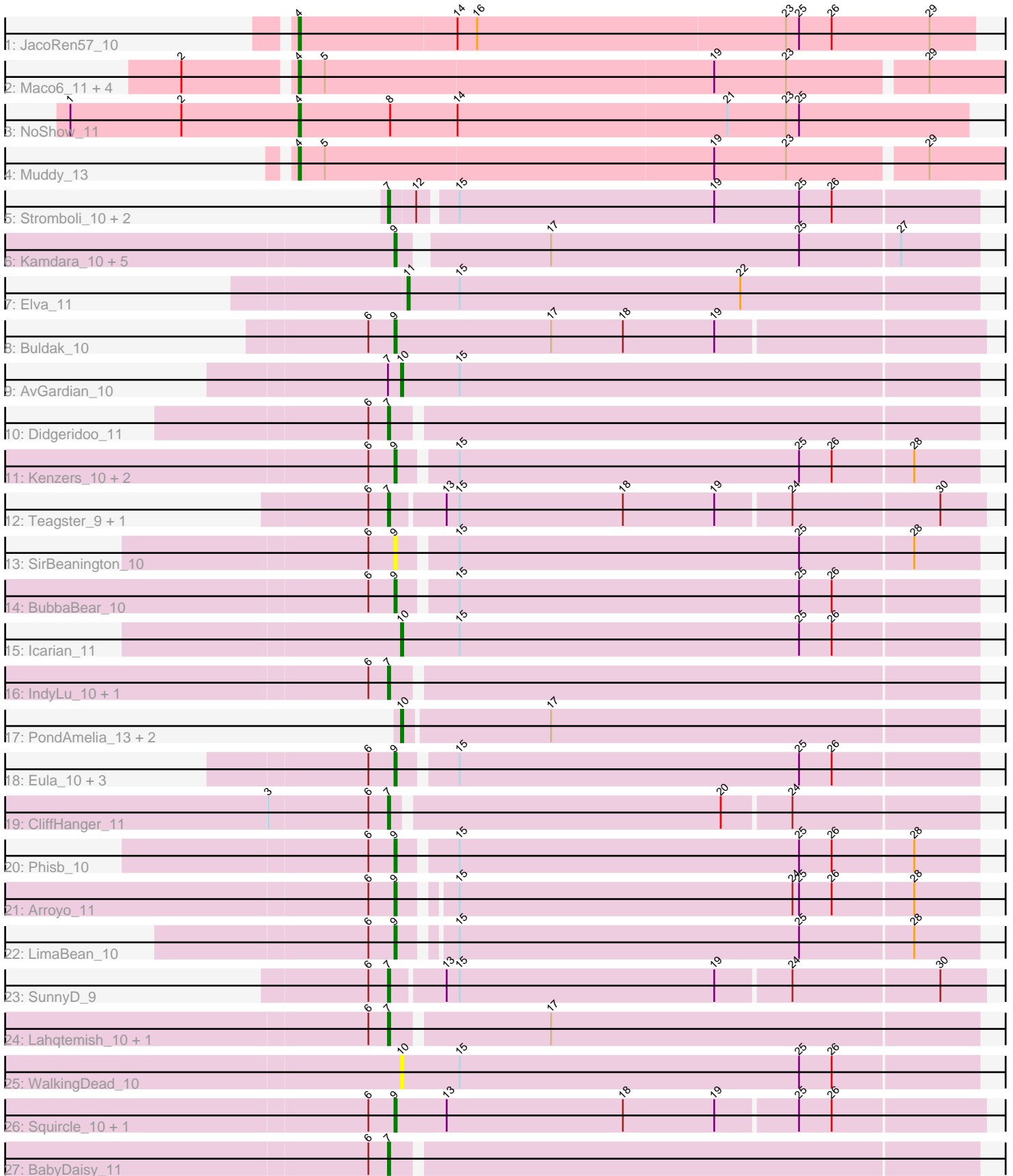


Pham 294829



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 294829 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294829 has 49 members, 9 are drafts.

Phages represented in each track:

- Track 1 : JacoRen57_10
- Track 2 : Maco6_11, 8UZL_13, LongHai_14, FF47_13, Salvus_14
- Track 3 : NoShow_11
- Track 4 : Muddy_13
- Track 5 : Stromboli_10, DirtyBubble_10, BabyYoda_10
- Track 6 : Kamdara_10, Rona_10, Kieran_10, ChiliPepper_10, Sharkboy_10, Dismas_10
- Track 7 : Elva_11
- Track 8 : Buldak_10
- Track 9 : AvGardian_10
- Track 10 : Didgeridoo_11
- Track 11 : Kenzers_10, Lynlen_10, Albedo_10
- Track 12 : Teagster_9, Shayna_9
- Track 13 : SirBeanington_10
- Track 14 : BubbaBear_10
- Track 15 : Icarian_11
- Track 16 : IndyLu_10, Kate33_10
- Track 17 : PondAmelia_13, SanaSana_11, Stoor_10
- Track 18 : Eula_10, QMacho_11, Jovita_10, Pecas_10
- Track 19 : CliffHanger_11
- Track 20 : Phisb_10
- Track 21 : Arroyo_11
- Track 22 : LimaBean_10
- Track 23 : SunnyD_9
- Track 24 : Lahqtemish_10, PastaFagioli_10
- Track 25 : WalkingDead_10
- Track 26 : Squiracle_10, Olliecat_10
- Track 27 : BabyDaisy_11

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

The start number called the most often in the published annotations is 9, it was called in 18 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Albedo_10, Arroyo_11, BubbaBear_10, Buldak_10, ChiliPepper_10, Dismas_10, Eula_10, Jovita_10, Kamdara_10, Kenzers_10, Kieran_10, LimaBean_10, Lynlen_10, Olliecat_10, Pecas_10, Phisb_10, QMacho_11, Rona_10, Sharkboy_10, SirBeanington_10, Squircle_10,

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

-

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

- 8UZL_13, AvGardian_10, BabyDaisy_11, BabyYoda_10, CliffHanger_11, Didgeridoo_11, DirtyBubble_10, Elva_11, FF47_13, Icarian_11, IndyLu_10, JacoRen57_10, Kate33_10, Lahqtemish_10, LongHai_14, Maco6_11, Muddy_13, NoShow_11, PastaFagioli_10, PondAmelia_13, Salvus_14, SanaSana_11, Shayna_9, Stoor_10, Stromboli_10, SunnyD_9, Teagster_9, WalkingDead_10,

Summary by start number:

Start 4:

- Found in 8 of 49 (16.3%) of genes in pham
- Manual Annotations of this start: 4 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 8UZL_13 (AB), FF47_13 (AB), JacoRen57_10 (AB), LongHai_14 (AB), Maco6_11 (AB), Muddy_13 (AB), NoShow_11 (AB), Salvus_14 (AB),

Start 7:

- Found in 14 of 49 (28.6%) of genes in pham
- Manual Annotations of this start: 13 of 40
- Called 92.9% of time when present
- Phage (with cluster) where this start called: BabyDaisy_11 (EB), BabyYoda_10 (EB), CliffHanger_11 (EB), Didgeridoo_11 (EB), DirtyBubble_10 (EB), IndyLu_10 (EB), Kate33_10 (EB), Lahqtemish_10 (EB), PastaFagioli_10 (EB), Shayna_9 (EB), Stromboli_10 (EB), SunnyD_9 (EB), Teagster_9 (EB),

Start 9:

- Found in 21 of 49 (42.9%) of genes in pham
- Manual Annotations of this start: 18 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Albedo_10 (EB), Arroyo_11 (EB), BubbaBear_10 (EB), Buldak_10 (EB), ChiliPepper_10 (EB), Dismas_10 (EB), Eula_10 (EB), Jovita_10 (EB), Kamdara_10 (EB), Kenzers_10 (EB), Kieran_10 (EB), LimaBean_10 (EB), Lynlen_10 (EB), Olliecat_10 (EB), Pecas_10 (EB), Phisb_10 (EB), QMacho_11 (EB), Rona_10 (EB), Sharkboy_10 (EB), SirBeanington_10 (EB), Squircle_10 (EB),

Start 10:

- Found in 6 of 49 (12.2%) of genes in pham
- Manual Annotations of this start: 4 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AvGardian_10 (EB), Icarian_11 (EB), PondAmelia_13 (EB), SanaSana_11 (EB), Stoor_10 (EB), WalkingDead_10 (EB),

Start 11:

- Found in 1 of 49 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 40
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elva_11 (EB),

Summary by clusters:

There are 2 clusters represented in this pham: AB, EB,

Info for manual annotations of cluster AB:

- Start number 4 was manually annotated 4 times for cluster AB.

Info for manual annotations of cluster EB:

- Start number 7 was manually annotated 13 times for cluster EB.
- Start number 9 was manually annotated 18 times for cluster EB.
- Start number 10 was manually annotated 4 times for cluster EB.
- Start number 11 was manually annotated 1 time for cluster EB.

Gene Information:

Gene: 8UZL_13 Start: 8593, Stop: 8913, Start Num: 4

Candidate Starts for 8UZL_13:

(2, 8545), (Start: 4 @8593 has 4 MA's), (5, 8605), (19, 8782), (23, 8815), (29, 8875),

Gene: Albedo_10 Start: 7645, Stop: 7905, Start Num: 9

Candidate Starts for Albedo_10:

(6, 7633), (Start: 9 @7645 has 18 MA's), (15, 7669), (25, 7825), (26, 7840), (28, 7876),

Gene: Arroyo_11 Start: 8124, Stop: 8381, Start Num: 9

Candidate Starts for Arroyo_11:

(6, 8112), (Start: 9 @8124 has 18 MA's), (15, 8145), (24, 8298), (25, 8301), (26, 8316), (28, 8352),

Gene: AvGardian_10 Start: 7705, Stop: 7968, Start Num: 10

Candidate Starts for AvGardian_10:

(Start: 7 @7699 has 13 MA's), (Start: 10 @7705 has 4 MA's), (15, 7732),

Gene: BabyDaisy_11 Start: 7870, Stop: 8133, Start Num: 7

Candidate Starts for BabyDaisy_11:

(6, 7861), (Start: 7 @7870 has 13 MA's),

Gene: BabyYoda_10 Start: 7899, Stop: 8162, Start Num: 7

Candidate Starts for BabyYoda_10:

(Start: 7 @7899 has 13 MA's), (12, 7911), (15, 7926), (19, 8043), (25, 8082), (26, 8097),

Gene: BubbaBear_10 Start: 7645, Stop: 7905, Start Num: 9

Candidate Starts for BubbaBear_10:

(6, 7633), (Start: 9 @7645 has 18 MA's), (15, 7669), (25, 7825), (26, 7840),

Gene: Buldak_10 Start: 7930, Stop: 8196, Start Num: 9

Candidate Starts for Buldak_10:

(6, 7918), (Start: 9 @7930 has 18 MA's), (17, 8002), (18, 8035), (19, 8077),

Gene: ChiliPepper_10 Start: 7882, Stop: 8139, Start Num: 9

Candidate Starts for ChiliPepper_10:

(Start: 9 @7882 has 18 MA's), (17, 7945), (25, 8059), (27, 8104),

Gene: CliffHanger_11 Start: 7626, Stop: 7886, Start Num: 7

Candidate Starts for CliffHanger_11:

(3, 7572), (6, 7617), (Start: 7 @7626 has 13 MA's), (20, 7773), (24, 7803),

Gene: Didgeridoo_11 Start: 7870, Stop: 8133, Start Num: 7

Candidate Starts for Didgeridoo_11:

(6, 7861), (Start: 7 @7870 has 13 MA's),

Gene: DirtyBubble_10 Start: 7907, Stop: 8170, Start Num: 7

Candidate Starts for DirtyBubble_10:

(Start: 7 @7907 has 13 MA's), (12, 7919), (15, 7934), (19, 8051), (25, 8090), (26, 8105),

Gene: Dismas_10 Start: 7882, Stop: 8139, Start Num: 9

Candidate Starts for Dismas_10:

(Start: 9 @7882 has 18 MA's), (17, 7945), (25, 8059), (27, 8104),

Gene: Elva_11 Start: 7965, Stop: 8225, Start Num: 11

Candidate Starts for Elva_11:

(Start: 11 @7965 has 1 MA's), (15, 7989), (22, 8118),

Gene: Eula_10 Start: 7652, Stop: 7912, Start Num: 9

Candidate Starts for Eula_10:

(6, 7640), (Start: 9 @7652 has 18 MA's), (15, 7676), (25, 7832), (26, 7847),

Gene: FF47_13 Start: 8559, Stop: 8879, Start Num: 4

Candidate Starts for FF47_13:

(2, 8511), (Start: 4 @8559 has 4 MA's), (5, 8571), (19, 8748), (23, 8781), (29, 8841),

Gene: Icarian_11 Start: 7889, Stop: 8152, Start Num: 10

Candidate Starts for Icarian_11:

(Start: 10 @7889 has 4 MA's), (15, 7916), (25, 8072), (26, 8087),

Gene: IndyLu_10 Start: 7694, Stop: 7957, Start Num: 7

Candidate Starts for IndyLu_10:

(6, 7685), (Start: 7 @7694 has 13 MA's),

Gene: JacoRen57_10 Start: 7639, Stop: 7947, Start Num: 4

Candidate Starts for JacoRen57_10:

(Start: 4 @7639 has 4 MA's), (14, 7711), (16, 7720), (23, 7861), (25, 7867), (26, 7882), (29, 7927),

Gene: Jovita_10 Start: 7753, Stop: 8013, Start Num: 9

Candidate Starts for Jovita_10:

(6, 7741), (Start: 9 @7753 has 18 MA's), (15, 7777), (25, 7933), (26, 7948),

Gene: Kamdara_10 Start: 7881, Stop: 8138, Start Num: 9

Candidate Starts for Kamdara_10:

(Start: 9 @7881 has 18 MA's), (17, 7944), (25, 8058), (27, 8103),

Gene: Kate33_10 Start: 7693, Stop: 7956, Start Num: 7

Candidate Starts for Kate33_10:

(6, 7684), (Start: 7 @7693 has 13 MA's),

Gene: Kenzers_10 Start: 7668, Stop: 7928, Start Num: 9

Candidate Starts for Kenzers_10:

(6, 7656), (Start: 9 @7668 has 18 MA's), (15, 7692), (25, 7848), (26, 7863), (28, 7899),

Gene: Kieran_10 Start: 7885, Stop: 8142, Start Num: 9

Candidate Starts for Kieran_10:

(Start: 9 @7885 has 18 MA's), (17, 7948), (25, 8062), (27, 8107),

Gene: Lahqtemish_10 Start: 7738, Stop: 8001, Start Num: 7

Candidate Starts for Lahqtemish_10:

(6, 7729), (Start: 7 @7738 has 13 MA's), (17, 7807),

Gene: LimaBean_10 Start: 7654, Stop: 7911, Start Num: 9

Candidate Starts for LimaBean_10:

(6, 7642), (Start: 9 @7654 has 18 MA's), (15, 7675), (25, 7831), (28, 7882),

Gene: LongHai_14 Start: 8895, Stop: 9215, Start Num: 4

Candidate Starts for LongHai_14:

(2, 8847), (Start: 4 @8895 has 4 MA's), (5, 8907), (19, 9084), (23, 9117), (29, 9177),

Gene: Lynlen_10 Start: 7668, Stop: 7928, Start Num: 9

Candidate Starts for Lynlen_10:

(6, 7656), (Start: 9 @7668 has 18 MA's), (15, 7692), (25, 7848), (26, 7863), (28, 7899),

Gene: Maco6_11 Start: 7851, Stop: 8171, Start Num: 4

Candidate Starts for Maco6_11:

(2, 7803), (Start: 4 @7851 has 4 MA's), (5, 7863), (19, 8040), (23, 8073), (29, 8133),

Gene: Muddy_13 Start: 8801, Stop: 9121, Start Num: 4

Candidate Starts for Muddy_13:

(Start: 4 @8801 has 4 MA's), (5, 8813), (19, 8990), (23, 9023), (29, 9083),

Gene: NoShow_11 Start: 7953, Stop: 8258, Start Num: 4

Candidate Starts for NoShow_11:

(1, 7848), (2, 7899), (Start: 4 @7953 has 4 MA's), (8, 7995), (14, 8025), (21, 8148), (23, 8175), (25, 8181),

Gene: Olliecat_10 Start: 7885, Stop: 8151, Start Num: 9

Candidate Starts for Olliecat_10:

(6, 7873), (Start: 9 @7885 has 18 MA's), (13, 7909), (18, 7990), (19, 8032), (25, 8068), (26, 8083),

Gene: PastaFagioli_10 Start: 7726, Stop: 7989, Start Num: 7

Candidate Starts for PastaFagioli_10:

(6, 7717), (Start: 7 @7726 has 13 MA's), (17, 7795),

Gene: Pecas_10 Start: 7652, Stop: 7912, Start Num: 9

Candidate Starts for Pecas_10:

(6, 7640), (Start: 9 @7652 has 18 MA's), (15, 7676), (25, 7832), (26, 7847),

Gene: Phisb_10 Start: 7645, Stop: 7905, Start Num: 9
Candidate Starts for Phisb_10:
(6, 7633), (Start: 9 @7645 has 18 MA's), (15, 7669), (25, 7825), (26, 7840), (28, 7876),

Gene: PondAmelia_13 Start: 7900, Stop: 8160, Start Num: 10
Candidate Starts for PondAmelia_13:
(Start: 10 @7900 has 4 MA's), (17, 7966),

Gene: QMacho_11 Start: 8135, Stop: 8395, Start Num: 9
Candidate Starts for QMacho_11:
(6, 8123), (Start: 9 @8135 has 18 MA's), (15, 8159), (25, 8315), (26, 8330),

Gene: Rona_10 Start: 7882, Stop: 8139, Start Num: 9
Candidate Starts for Rona_10:
(Start: 9 @7882 has 18 MA's), (17, 7945), (25, 8059), (27, 8104),

Gene: Salvus_14 Start: 8895, Stop: 9215, Start Num: 4
Candidate Starts for Salvus_14:
(2, 8847), (Start: 4 @8895 has 4 MA's), (5, 8907), (19, 9084), (23, 9117), (29, 9177),

Gene: SanaSana_11 Start: 7900, Stop: 8160, Start Num: 10
Candidate Starts for SanaSana_11:
(Start: 10 @7900 has 4 MA's), (17, 7966),

Gene: Sharkboy_10 Start: 7881, Stop: 8138, Start Num: 9
Candidate Starts for Sharkboy_10:
(Start: 9 @7881 has 18 MA's), (17, 7944), (25, 8058), (27, 8103),

Gene: Shayna_9 Start: 7487, Stop: 7753, Start Num: 7
Candidate Starts for Shayna_9:
(6, 7478), (Start: 7 @7487 has 13 MA's), (13, 7511), (15, 7517), (18, 7592), (19, 7634), (24, 7667), (30, 7733),

Gene: SirBeanington_10 Start: 7654, Stop: 7914, Start Num: 9
Candidate Starts for SirBeanington_10:
(6, 7642), (Start: 9 @7654 has 18 MA's), (15, 7678), (25, 7834), (28, 7885),

Gene: Squiracle_10 Start: 7884, Stop: 8150, Start Num: 9
Candidate Starts for Squiracle_10:
(6, 7872), (Start: 9 @7884 has 18 MA's), (13, 7908), (18, 7989), (19, 8031), (25, 8067), (26, 8082),

Gene: Stoor_10 Start: 7897, Stop: 8157, Start Num: 10
Candidate Starts for Stoor_10:
(Start: 10 @7897 has 4 MA's), (17, 7963),

Gene: Stromboli_10 Start: 7898, Stop: 8161, Start Num: 7
Candidate Starts for Stromboli_10:
(Start: 7 @7898 has 13 MA's), (12, 7910), (15, 7925), (19, 8042), (25, 8081), (26, 8096),

Gene: SunnyD_9 Start: 7487, Stop: 7753, Start Num: 7
Candidate Starts for SunnyD_9:
(6, 7478), (Start: 7 @7487 has 13 MA's), (13, 7511), (15, 7517), (19, 7634), (24, 7667), (30, 7733),

Gene: Teagster_9 Start: 7487, Stop: 7753, Start Num: 7

Candidate Starts for Teagster_9:

(6, 7478), (Start: 7 @7487 has 13 MA's), (13, 7511), (15, 7517), (18, 7592), (19, 7634), (24, 7667), (30, 7733),

Gene: WalkingDead_10 Start: 7885, Stop: 8148, Start Num: 10

Candidate Starts for WalkingDead_10:

(Start: 10 @7885 has 4 MA's), (15, 7912), (25, 8068), (26, 8083),