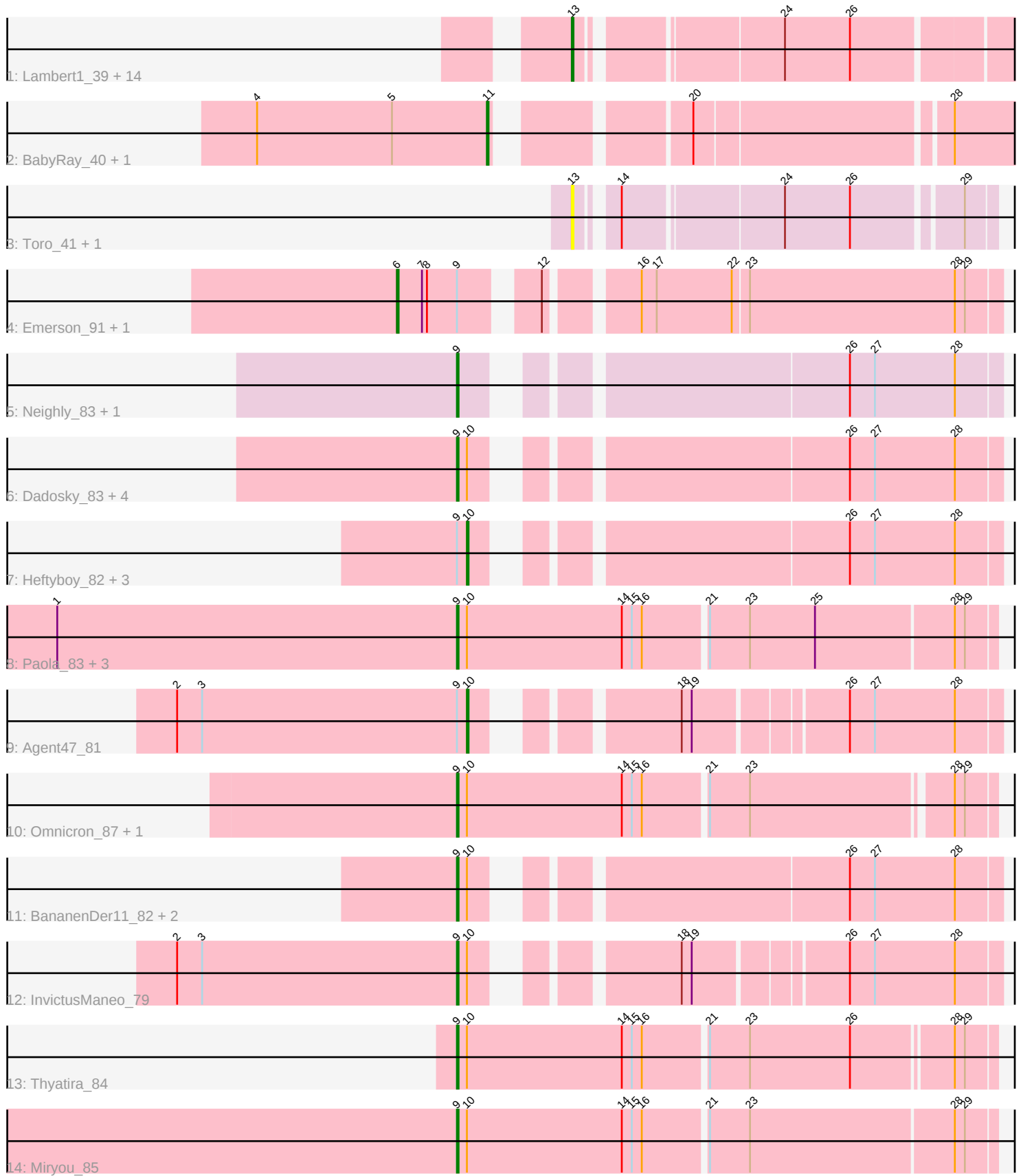


Pham 330983



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 330983 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330983 has 45 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Lambert1_39, Norbert_38, Todacoro_39, Pocahontas_39, Noella_39, QuinnKiro_38, Panamaxus_37, Margo_39, Popcicle_39, EtoileNova_40, Caviar_39, Veracruz_38, Hookmount_39, Texage_38, ResDef_39
- Track 2 : BabyRay_40, Cat_38
- Track 3 : Toro_41, FlyCatcher_43
- Track 4 : Emerson_91, Padpat_92
- Track 5 : Neighly_83, Larva_82
- Track 6 : Dadosky_83, Kratio_83, Edugator_79, Psycho_81, AlleyCat_83
- Track 7 : Heftyboy_82, ViviJ_88, SoSeph_82, Collard_80
- Track 8 : Paola_83, Leston_83, Waterfoul_83, Guillsminger_84
- Track 9 : Agent47_81
- Track 10 : Omnicron_87, Rando14_84
- Track 11 : BananenDer11_82, DoubleChamp_79, LilDirt_81
- Track 12 : InvictusManeo_79
- Track 13 : Thyatira_84
- Track 14 : Miryou_85

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 17 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlleyCat_83, BananenDer11_82, Dadosky_83, DoubleChamp_79, Edugator_79, Guillsminger_84, InvictusManeo_79, Kratio_83, Larva_82, Leston_83, LilDirt_81, Miryou_85, Neighly_83, Omnicron_87, Paola_83, Psycho_81, Rando14_84, Thyatira_84, Waterfoul_83,

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

- Agent47_81, Collard_80, Emerson_91, Heftyboy_82, Padpat_92, SoSeph_82, ViviJ_88,

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

• BabyRay_40, Cat_38, Caviar_39, EtoileNova_40, FlyCatcher_43, Hookmount_39, Lambert1_39, Margo_39, Noella_39, Norbert_38, Panamaxus_37, Pocahontas_39, Popcicle_39, QuinnKiro_38, ResDef_39, Texage_38, Todacoro_39, Toro_41, Veracruz_38,

Summary by start number:

Start 6:

- Found in 2 of 45 (4.4%) of genes in pham
- Manual Annotations of this start: 2 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emerson_91 (K1), Padpat_92 (K1),

Start 9:

- Found in 26 of 45 (57.8%) of genes in pham
- Manual Annotations of this start: 17 of 39
- Called 73.1% of time when present
- Phage (with cluster) where this start called: AlleyCat_83 (K5), BananenDer11_82 (K5), Dadosky_83 (K5), DoubleChamp_79 (K5), Edugator_79 (K5), Guillsminger_84 (K5), InvictusManeo_79 (K5), Kratio_83 (K5), Larva_82 (K5), Leston_83 (K5), LilDirt_81 (K5), Miryou_85 (K5), Neighly_83 (K3), Omnicron_87 (K5), Paola_83 (K5), Psycho_81 (K5), Rando14_84 (K5), Thyatira_84 (K5), Waterfoul_83 (K5),

Start 10:

- Found in 22 of 45 (48.9%) of genes in pham
- Manual Annotations of this start: 5 of 39
- Called 22.7% of time when present
- Phage (with cluster) where this start called: Agent47_81 (K5), Collard_80 (K5), Heftyboy_82 (K5), SoSeph_82 (K5), ViviJ_88 (K5),

Start 11:

- Found in 2 of 45 (4.4%) of genes in pham
- Manual Annotations of this start: 1 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BabyRay_40 (A3), Cat_38 (A3),

Start 13:

- Found in 17 of 45 (37.8%) of genes in pham
- Manual Annotations of this start: 14 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Caviar_39 (A3), EtoileNova_40 (A3), FlyCatcher_43 (A7), Hookmount_39 (A3), Lambert1_39 (A3), Margo_39 (A3), Noella_39 (A3), Norbert_38 (A3), Panamaxus_37 (A3), Pocahontas_39 (A3), Popcicle_39 (A3), QuinnKiro_38 (A3), ResDef_39 (A3), Texage_38 (A3), Todacoro_39 (A3), Toro_41 (A7), Veracruz_38 (A3),

Summary by clusters:

There are 5 clusters represented in this pham: K3, K1, A3, A7, K5,

Info for manual annotations of cluster A3:

- Start number 11 was manually annotated 1 time for cluster A3.
- Start number 13 was manually annotated 14 times for cluster A3.

Info for manual annotations of cluster K1:

- Start number 6 was manually annotated 2 times for cluster K1.

Info for manual annotations of cluster K5:

- Start number 9 was manually annotated 17 times for cluster K5.
- Start number 10 was manually annotated 5 times for cluster K5.

Gene Information:

Gene: Agent47_81 Start: 53059, Stop: 53331, Start Num: 10

Candidate Starts for Agent47_81:

(2, 52885), (3, 52900), (Start: 9 @53053 has 17 MA's), (Start: 10 @53059 has 5 MA's), (18, 53152), (19, 53158), (26, 53242), (27, 53257), (28, 53305),

Gene: AlleyCat_83 Start: 54184, Stop: 54471, Start Num: 9

Candidate Starts for AlleyCat_83:

(Start: 9 @54184 has 17 MA's), (Start: 10 @54190 has 5 MA's), (26, 54382), (27, 54397), (28, 54445),

Gene: BabyRay_40 Start: 28714, Stop: 28439, Start Num: 11

Candidate Starts for BabyRay_40:

(4, 28852), (5, 28771), (Start: 11 @28714 has 1 MA's), (20, 28621), (28, 28477),

Gene: BananenDer11_82 Start: 53294, Stop: 53581, Start Num: 9

Candidate Starts for BananenDer11_82:

(Start: 9 @53294 has 17 MA's), (Start: 10 @53300 has 5 MA's), (26, 53492), (27, 53507), (28, 53555),

Gene: Cat_38 Start: 28327, Stop: 28052, Start Num: 11

Candidate Starts for Cat_38:

(4, 28465), (5, 28384), (Start: 11 @28327 has 1 MA's), (20, 28234), (28, 28090),

Gene: Caviar_39 Start: 28759, Stop: 28520, Start Num: 13

Candidate Starts for Caviar_39:

(Start: 13 @28759 has 14 MA's), (24, 28651), (26, 28612),

Gene: Collard_80 Start: 53300, Stop: 53581, Start Num: 10

Candidate Starts for Collard_80:

(Start: 9 @53294 has 17 MA's), (Start: 10 @53300 has 5 MA's), (26, 53492), (27, 53507), (28, 53555),

Gene: Dadosky_83 Start: 54185, Stop: 54472, Start Num: 9

Candidate Starts for Dadosky_83:

(Start: 9 @54185 has 17 MA's), (Start: 10 @54191 has 5 MA's), (26, 54383), (27, 54398), (28, 54446),

Gene: DoubleChamp_79 Start: 53294, Stop: 53581, Start Num: 9

Candidate Starts for DoubleChamp_79:

(Start: 9 @53294 has 17 MA's), (Start: 10 @53300 has 5 MA's), (26, 53492), (27, 53507), (28, 53555),

Gene: Edugator_79 Start: 55356, Stop: 55643, Start Num: 9

Candidate Starts for Edugator_79:

(Start: 9 @55356 has 17 MA's), (Start: 10 @55362 has 5 MA's), (26, 55554), (27, 55569), (28, 55617),

Gene: Emerson_91 Start: 56890, Stop: 57219, Start Num: 6

Candidate Starts for Emerson_91:

(Start: 6 @56890 has 2 MA's), (7, 56905), (8, 56908), (Start: 9 @56926 has 17 MA's), (12, 56962), (16, 57007), (17, 57016), (22, 57061), (23, 57070), (28, 57193), (29, 57199),

Gene: EtoileNova_40 Start: 28763, Stop: 28524, Start Num: 13

Candidate Starts for EtoileNova_40:

(Start: 13 @28763 has 14 MA's), (24, 28655), (26, 28616),

Gene: FlyCatcher_43 Start: 30738, Stop: 30514, Start Num: 13

Candidate Starts for FlyCatcher_43:

(Start: 13 @30738 has 14 MA's), (14, 30720), (24, 30630), (26, 30591), (29, 30531),

Gene: Guillsminger_84 Start: 55380, Stop: 55694, Start Num: 9

Candidate Starts for Guillsminger_84:

(1, 55140), (Start: 9 @55380 has 17 MA's), (Start: 10 @55386 has 5 MA's), (14, 55479), (15, 55485), (16, 55491), (21, 55527), (23, 55551), (25, 55590), (28, 55671), (29, 55677),

Gene: Heftyboy_82 Start: 55027, Stop: 55308, Start Num: 10

Candidate Starts for Heftyboy_82:

(Start: 9 @55021 has 17 MA's), (Start: 10 @55027 has 5 MA's), (26, 55219), (27, 55234), (28, 55282),

Gene: Hookmount_39 Start: 28760, Stop: 28521, Start Num: 13

Candidate Starts for Hookmount_39:

(Start: 13 @28760 has 14 MA's), (24, 28652), (26, 28613),

Gene: InvictusManeo_79 Start: 53057, Stop: 53335, Start Num: 9

Candidate Starts for InvictusManeo_79:

(2, 52889), (3, 52904), (Start: 9 @53057 has 17 MA's), (Start: 10 @53063 has 5 MA's), (18, 53156), (19, 53162), (26, 53246), (27, 53261), (28, 53309),

Gene: Kratio_83 Start: 54079, Stop: 54366, Start Num: 9

Candidate Starts for Kratio_83:

(Start: 9 @54079 has 17 MA's), (Start: 10 @54085 has 5 MA's), (26, 54277), (27, 54292), (28, 54340),

Gene: Lambert1_39 Start: 28759, Stop: 28520, Start Num: 13

Candidate Starts for Lambert1_39:

(Start: 13 @28759 has 14 MA's), (24, 28651), (26, 28612),

Gene: Larva_82 Start: 55057, Stop: 55344, Start Num: 9

Candidate Starts for Larva_82:

(Start: 9 @55057 has 17 MA's), (26, 55255), (27, 55270), (28, 55318),

Gene: Leston_83 Start: 55497, Stop: 55811, Start Num: 9

Candidate Starts for Leston_83:

(1, 55257), (Start: 9 @55497 has 17 MA's), (Start: 10 @55503 has 5 MA's), (14, 55596), (15, 55602), (16, 55608), (21, 55644), (23, 55668), (25, 55707), (28, 55788), (29, 55794),

Gene: LilDirt_81 Start: 53095, Stop: 53382, Start Num: 9

Candidate Starts for LilDirt_81:

(Start: 9 @53095 has 17 MA's), (Start: 10 @53101 has 5 MA's), (26, 53293), (27, 53308), (28, 53356),

Gene: Margo_39 Start: 28785, Stop: 28546, Start Num: 13

Candidate Starts for Margo_39:

(Start: 13 @28785 has 14 MA's), (24, 28677), (26, 28638),

Gene: Miryou_85 Start: 57355, Stop: 57669, Start Num: 9

Candidate Starts for Miryou_85:

(Start: 9 @57355 has 17 MA's), (Start: 10 @57361 has 5 MA's), (14, 57454), (15, 57460), (16, 57466), (21, 57502), (23, 57526), (28, 57646), (29, 57652),

Gene: Neighly_83 Start: 55056, Stop: 55343, Start Num: 9

Candidate Starts for Neighly_83:

(Start: 9 @55056 has 17 MA's), (26, 55254), (27, 55269), (28, 55317),

Gene: Noella_39 Start: 28760, Stop: 28521, Start Num: 13

Candidate Starts for Noella_39:

(Start: 13 @28760 has 14 MA's), (24, 28652), (26, 28613),

Gene: Norbert_38 Start: 28759, Stop: 28520, Start Num: 13

Candidate Starts for Norbert_38:

(Start: 13 @28759 has 14 MA's), (24, 28651), (26, 28612),

Gene: Omnicron_87 Start: 57578, Stop: 57886, Start Num: 9

Candidate Starts for Omnicron_87:

(Start: 9 @57578 has 17 MA's), (Start: 10 @57584 has 5 MA's), (14, 57677), (15, 57683), (16, 57689), (21, 57725), (23, 57749), (28, 57863), (29, 57869),

Gene: Padpat_92 Start: 56890, Stop: 57219, Start Num: 6

Candidate Starts for Padpat_92:

(Start: 6 @56890 has 2 MA's), (7, 56905), (8, 56908), (Start: 9 @56926 has 17 MA's), (12, 56962), (16, 57007), (17, 57016), (22, 57061), (23, 57070), (28, 57193), (29, 57199),

Gene: Panamaxus_37 Start: 28759, Stop: 28520, Start Num: 13

Candidate Starts for Panamaxus_37:

(Start: 13 @28759 has 14 MA's), (24, 28651), (26, 28612),

Gene: Paola_83 Start: 55380, Stop: 55694, Start Num: 9

Candidate Starts for Paola_83:

(1, 55140), (Start: 9 @55380 has 17 MA's), (Start: 10 @55386 has 5 MA's), (14, 55479), (15, 55485), (16, 55491), (21, 55527), (23, 55551), (25, 55590), (28, 55671), (29, 55677),

Gene: Pocahontas_39 Start: 28756, Stop: 28517, Start Num: 13

Candidate Starts for Pocahontas_39:

(Start: 13 @28756 has 14 MA's), (24, 28648), (26, 28609),

Gene: Popcicle_39 Start: 28756, Stop: 28517, Start Num: 13

Candidate Starts for Popcicle_39:

(Start: 13 @28756 has 14 MA's), (24, 28648), (26, 28609),

Gene: Psycho_81 Start: 54182, Stop: 54469, Start Num: 9

Candidate Starts for Psycho_81:

(Start: 9 @54182 has 17 MA's), (Start: 10 @54188 has 5 MA's), (26, 54380), (27, 54395), (28, 54443),

Gene: QuinnKiro_38 Start: 28759, Stop: 28520, Start Num: 13

Candidate Starts for QuinnKiro_38:

(Start: 13 @28759 has 14 MA's), (24, 28651), (26, 28612),

Gene: Rando14_84 Start: 55989, Stop: 56297, Start Num: 9

Candidate Starts for Rando14_84:

(Start: 9 @55989 has 17 MA's), (Start: 10 @55995 has 5 MA's), (14, 56088), (15, 56094), (16, 56100), (21, 56136), (23, 56160), (28, 56274), (29, 56280),

Gene: ResDef_39 Start: 28759, Stop: 28520, Start Num: 13

Candidate Starts for ResDef_39:

(Start: 13 @28759 has 14 MA's), (24, 28651), (26, 28612),

Gene: SoSeph_82 Start: 55027, Stop: 55308, Start Num: 10

Candidate Starts for SoSeph_82:

(Start: 9 @55021 has 17 MA's), (Start: 10 @55027 has 5 MA's), (26, 55219), (27, 55234), (28, 55282),

Gene: Texage_38 Start: 28760, Stop: 28521, Start Num: 13

Candidate Starts for Texage_38:

(Start: 13 @28760 has 14 MA's), (24, 28652), (26, 28613),

Gene: Thyatira_84 Start: 57092, Stop: 57403, Start Num: 9

Candidate Starts for Thyatira_84:

(Start: 9 @57092 has 17 MA's), (Start: 10 @57098 has 5 MA's), (14, 57191), (15, 57197), (16, 57203), (21, 57239), (23, 57263), (26, 57323), (28, 57380), (29, 57386),

Gene: Todacoro_39 Start: 28759, Stop: 28520, Start Num: 13

Candidate Starts for Todacoro_39:

(Start: 13 @28759 has 14 MA's), (24, 28651), (26, 28612),

Gene: Toro_41 Start: 30738, Stop: 30514, Start Num: 13

Candidate Starts for Toro_41:

(Start: 13 @30738 has 14 MA's), (14, 30720), (24, 30630), (26, 30591), (29, 30531),

Gene: Veracruz_38 Start: 28759, Stop: 28520, Start Num: 13

Candidate Starts for Veracruz_38:

(Start: 13 @28759 has 14 MA's), (24, 28651), (26, 28612),

Gene: ViviJ_88 Start: 55389, Stop: 55670, Start Num: 10

Candidate Starts for ViviJ_88:

(Start: 9 @55383 has 17 MA's), (Start: 10 @55389 has 5 MA's), (26, 55581), (27, 55596), (28, 55644),

Gene: Waterfoul_83 Start: 55162, Stop: 55473, Start Num: 9

Candidate Starts for Waterfoul_83:

(1, 54922), (Start: 9 @55162 has 17 MA's), (Start: 10 @55168 has 5 MA's), (14, 55261), (15, 55267), (16, 55273), (21, 55309), (23, 55333), (25, 55372), (28, 55450), (29, 55456),