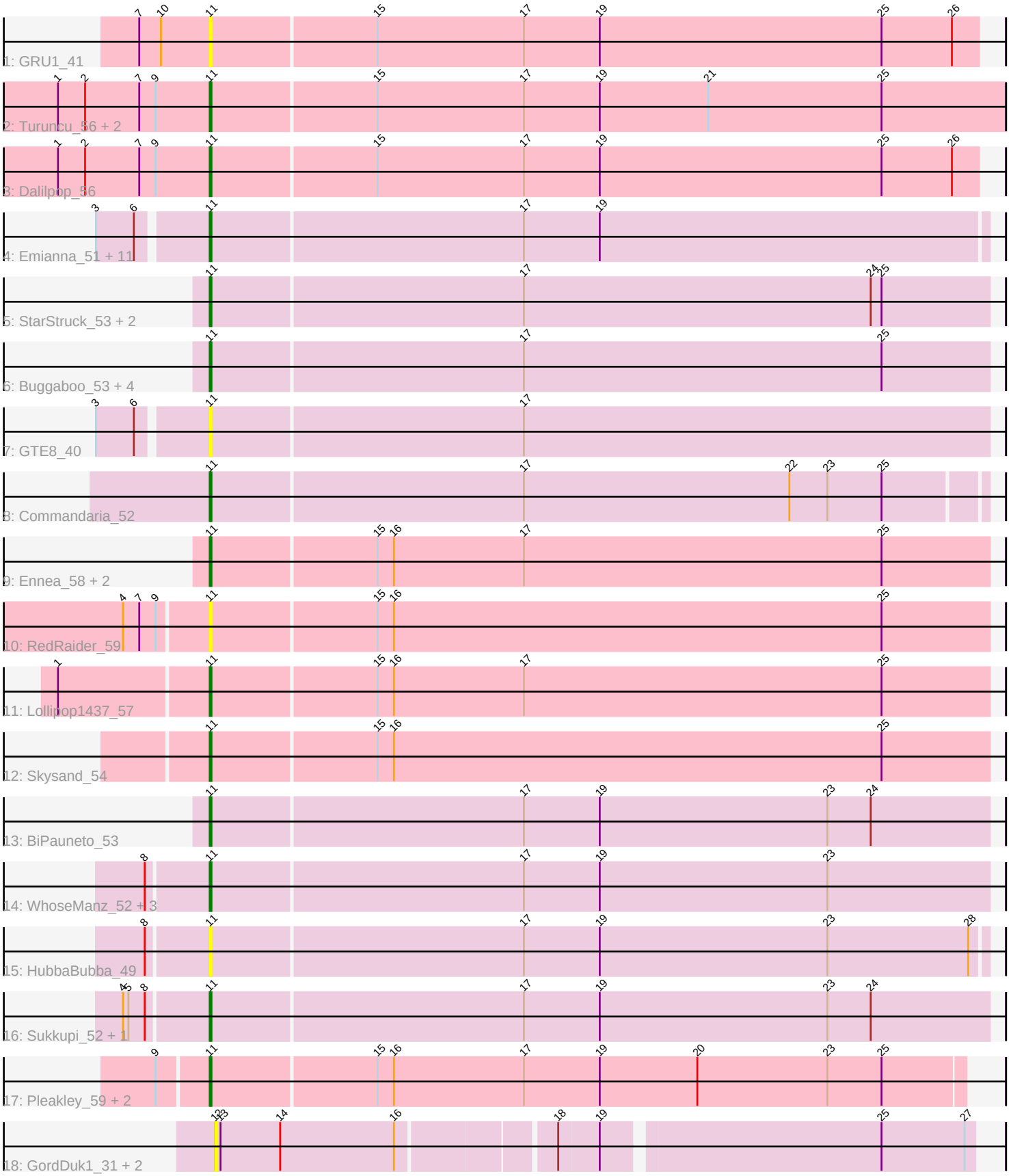
Pham 203047


1: GRU1_41
2: Turuncu_56 + 2
3: Dalilpop_56
4: Emianna_51 + 11
5: StarStruck_53 + 2
6: Buggaboo_53 + 4
7: GTE8_40
8: Commandaria_52
9: Ennea_58 + 2
10: RedRaider_59
11: Lollipop1437_57
12: Skysand_54
13: BiPauneto_53
14: WhoseManz_52 + 3
15: HubbaBubba_49
16: Sukkupi_52 + 1
17: Pleakley_59 + 2
18: GordDuk1_31 + 2

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 203047 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203047 has 47 members, 10 are drafts.

Phages represented in each track:
• Track 1 : GRU1_41
• Track 2 : Turuncu_56, Flapper_56, GTE5_43
• Track 3 : Dalilpop_56
• Track 4 : Emianna_51, Kurt_51, KidneyBean_51, GrootJr_53, Wheezy_51, NovumRegina_51, Jifall16_50, Tracker_51, Arti_51, Foxboro_52, Phomeo_50, NatB6_51
• Track 5 : StarStruck_53, Outis_53, MerCougar_53
• Track 6 : Buggaboo_53, Kabluna_55, SuperSulley_53, NosilaM_55, Bonum_55
• Track 7 : GTE8_40
• Track 8 : Commandaria_52
• Track 9 : Ennea_58, Patio_55, Float294_54
• Track 10 : RedRaider_59
• Track 11 : Lollipop1437_57
• Track 12 : Skysand_54
• Track 13 : BiPauneto_53
• Track 14 : WhoseManz_52, NadineRae_51, IDyn_52, Marietta_53
• Track 15 : HubbaBubba_49
• Track 16 : Sukkupi_52, Yndexa_52
• Track 17 : Pleakley_59, Fury_59, Scuba_60
• Track 18 : GordDuk1_31, GordTnk2_31, Gmala1_31

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

The start number called the most often in the published annotations is 11, it was called in 37 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arti_51, BiPauneto_53, Bonum_55, Buggaboo_53, Commandaria_52, Dalilpop_56, Emianna_51, Ennea_58, Flapper_56, Float294_54, Foxboro_52, Fury_59, GRU1_41, GTE5_43, GTE8_40, GrootJr_53, HubbaBubba_49, IDyn_52, Jifall16_50, Kabluna_55, KidneyBean_51, Kurt_51, Lollipop1437_57, Marietta_53, MerCougar_53, NadineRae_51, NatB6_51, NosilaM_55, NovumRegina_51, Outis_53, Patio_55, Phomeo_50, Pleakley_59, RedRaider_59, Scuba_60, Skysand_54, StarStruck_53, Sukkupi_52, SuperSulley_53, Tracker_51, Turuncu_56,

Wheezy_51, WhoseManz_52, Yndexa_52,

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

Genes that do not have the "Most Annotated" start:
• Gmala1_31, GordDuk1_31, GordTnk2_31,

Summary by start number:

Start 11:
• Found in 44 of 47 (93.6%) of genes in pham
• Manual Annotations of this start: 37 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arti_51 (CR2), BiPauneto_53 (CR4), Bonum_55 (CR2), Buggaboo_53 (CR2), Commandaria_52 (CR2), Dalilpop_56 (CR1), Emianna_51 (CR2), Ennea_58 (CR3), Flapper_56 (CR1), Float294_54 (CR3), Foxboro_52 (CR2), Fury_59 (CR5), GRU1_41 (CR1), GTE5_43 (CR1), GTE8_40 (CR2), GrootJr_53 (CR2), HubbaBubba_49 (CR4), IDyn_52 (CR4), Jifall16_50 (CR2), Kabluna_55 (CR2), KidneyBean_51 (CR2), Kurt_51 (CR2), Lollipop1437_57 (CR3), Marietta_53 (CR4), MerCougar_53 (CR2), NadineRae_51 (CR4), NatB6_51 (CR2), NosilaM_55 (CR2), NovumRegina_51 (CR2), Outis_53 (CR2), Patio_55 (CR3), Phomeo_50 (CR2), Pleakley_59 (CR5), RedRaider_59 (CR3), Scuba_60 (CR5), Skysand_54 (CR3), StarStruck_53 (CR2), Sukkupi_52 (CR4), SuperSulley_53 (CR2), Tracker_51 (CR2), Turuncu_56 (CR1), Wheezy_51 (CR2), WhoseManz_52 (CR4), Yndexa_52 (CR4),

Start 12:
• Found in 3 of 47 (6.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gmala1_31 (DF1), GordDuk1_31 (DF1), GordTnk2_31 (DF1),

Summary by clusters:

There are 6 clusters represented in this pham: CR2, CR3, CR1, CR4, CR5, DF1,

Info for manual annotations of cluster CR1:
•Start number 11 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 11 was manually annotated 20 times for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 11 was manually annotated 5 times for cluster CR3.

Info for manual annotations of cluster CR4:
•Start number 11 was manually annotated 7 times for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 11 was manually annotated 2 times for cluster CR5.

Gene Information:

Gene: Arti_51 Start: 39161, Stop: 39586, Start Num: 11
Candidate Starts for Arti_51:
(3, 39104), (6, 39125), (Start: 11 @39161 has 37 MA's), (17, 39332), (19, 39374),

Gene: BiPauneto_53 Start: 38687, Stop: 39115, Start Num: 11
Candidate Starts for BiPauneto_53:
(Start: 11 @38687 has 37 MA's), (17, 38858), (19, 38900), (23, 39026), (24, 39050),

Gene: Bonum_55 Start: 39814, Stop: 40242, Start Num: 11
Candidate Starts for Bonum_55:
(Start: 11 @39814 has 37 MA's), (17, 39985), (25, 40183),

Gene: Buggaboo_53 Start: 40293, Stop: 40721, Start Num: 11
Candidate Starts for Buggaboo_53:
(Start: 11 @40293 has 37 MA's), (17, 40464), (25, 40662),

Gene: Commandaria_52 Start: 40288, Stop: 40710, Start Num: 11
Candidate Starts for Commandaria_52:
(Start: 11 @40288 has 37 MA's), (17, 40459), (22, 40606), (23, 40627), (25, 40657),

Gene: Dalilpop_56 Start: 41448, Stop: 41870, Start Num: 11
Candidate Starts for Dalilpop_56:
(1, 41364), (2, 41379), (7, 41409), (9, 41418), (Start: 11 @41448 has 37 MA's), (15, 41538), (17, 41619), (19, 41661), (25, 41817), (26, 41856),

Gene: Emianna_51 Start: 40153, Stop: 40578, Start Num: 11
Candidate Starts for Emianna_51:
(3, 40096), (6, 40117), (Start: 11 @40153 has 37 MA's), (17, 40324), (19, 40366),

Gene: Ennea_58 Start: 41167, Stop: 41595, Start Num: 11
Candidate Starts for Ennea_58:
(Start: 11 @41167 has 37 MA's), (15, 41257), (16, 41266), (17, 41338), (25, 41536),

Gene: Flapper_56 Start: 40879, Stop: 41316, Start Num: 11
Candidate Starts for Flapper_56:
(1, 40795), (2, 40810), (7, 40840), (9, 40849), (Start: 11 @40879 has 37 MA's), (15, 40969), (17, 41050), (19, 41092), (21, 41152), (25, 41248),

Gene: Float294_54 Start: 40609, Stop: 41037, Start Num: 11
Candidate Starts for Float294_54:
(Start: 11 @40609 has 37 MA's), (15, 40699), (16, 40708), (17, 40780), (25, 40978),

Gene: Foxboro_52 Start: 40659, Stop: 41084, Start Num: 11
Candidate Starts for Foxboro_52:
(3, 40602), (6, 40623), (Start: 11 @40659 has 37 MA's), (17, 40830), (19, 40872),

Gene: Fury_59 Start: 39331, Stop: 39744, Start Num: 11
Candidate Starts for Fury_59:

(9, 39304), (Start: 11 @39331 has 37 MA's), (15, 39421), (16, 39430), (17, 39502), (19, 39544), (20, 39598), (23, 39670), (25, 39700),

Gene: GRU1_41 Start: 32426, Stop: 32848, Start Num: 11
Candidate Starts for GRU1_41:
(7, 32387), (10, 32399), (Start: 11 @32426 has 37 MA's), (15, 32516), (17, 32597), (19, 32639), (25, 32795), (26, 32834),

Gene: GTE5_43 Start: 33736, Stop: 34173, Start Num: 11
Candidate Starts for GTE5_43:
(1, 33652), (2, 33667), (7, 33697), (9, 33706), (Start: 11 @33736 has 37 MA's), (15, 33826), (17, 33907), (19, 33949), (21, 34009), (25, 34105),

Gene: GTE8_40 Start: 33411, Stop: 33839, Start Num: 11
Candidate Starts for GTE8_40:
(3, 33354), (6, 33375), (Start: 11 @33411 has 37 MA's), (17, 33582),

Gene: Gmala1_31 Start: 36456, Stop: 36854, Start Num: 12
Candidate Starts for Gmala1_31:
(12, 36456), (13, 36459), (14, 36492), (16, 36555), (18, 36636), (19, 36657), (25, 36804), (27, 36849),

Gene: GordDuk1_31 Start: 36394, Stop: 36792, Start Num: 12
Candidate Starts for GordDuk1_31:
(12, 36394), (13, 36397), (14, 36430), (16, 36493), (18, 36574), (19, 36595), (25, 36742), (27, 36787),

Gene: GordTnk2_31 Start: 36363, Stop: 36761, Start Num: 12
Candidate Starts for GordTnk2_31:
(12, 36363), (13, 36366), (14, 36399), (16, 36462), (18, 36543), (19, 36564), (25, 36711), (27, 36756),

Gene: GrootJr_53 Start: 39535, Stop: 39960, Start Num: 11
Candidate Starts for GrootJr_53:
(3, 39478), (6, 39499), (Start: 11 @39535 has 37 MA's), (17, 39706), (19, 39748),

Gene: HubbaBubba_49 Start: 35702, Stop: 36127, Start Num: 11
Candidate Starts for HubbaBubba_49:
(8, 35669), (Start: 11 @35702 has 37 MA's), (17, 35873), (19, 35915), (23, 36041), (28, 36119),

Gene: IDyn_52 Start: 37131, Stop: 37559, Start Num: 11
Candidate Starts for IDyn_52:
(8, 37098), (Start: 11 @37131 has 37 MA's), (17, 37302), (19, 37344), (23, 37470),

Gene: Jifall16_50 Start: 39807, Stop: 40232, Start Num: 11
Candidate Starts for Jifall16_50:
(3, 39750), (6, 39771), (Start: 11 @39807 has 37 MA's), (17, 39978), (19, 40020),

Gene: Kabluna_55 Start: 39229, Stop: 39657, Start Num: 11
Candidate Starts for Kabluna_55:
(Start: 11 @39229 has 37 MA's), (17, 39400), (25, 39598),

Gene: KidneyBean_51 Start: 39931, Stop: 40356, Start Num: 11
Candidate Starts for KidneyBean_51:
(3, 39874), (6, 39895), (Start: 11 @39931 has 37 MA's), (17, 40102), (19, 40144),

Gene: Kurt_51 Start: 40168, Stop: 40593, Start Num: 11
Candidate Starts for Kurt_51:
(3, 40111), (6, 40132), (Start: 11 @40168 has 37 MA's), (17, 40339), (19, 40381),

Gene: Lollipop1437_57 Start: 41155, Stop: 41583, Start Num: 11
Candidate Starts for Lollipop1437_57:
(1, 41074), (Start: 11 @41155 has 37 MA's), (15, 41245), (16, 41254), (17, 41326), (25, 41524),

Gene: Marietta_53 Start: 37025, Stop: 37453, Start Num: 11
Candidate Starts for Marietta_53:
(8, 36992), (Start: 11 @37025 has 37 MA's), (17, 37196), (19, 37238), (23, 37364),

Gene: MerCougar_53 Start: 40431, Stop: 40859, Start Num: 11
Candidate Starts for MerCougar_53:
(Start: 11 @40431 has 37 MA's), (17, 40602), (24, 40794), (25, 40800),

Gene: NadineRae_51 Start: 36272, Stop: 36697, Start Num: 11
Candidate Starts for NadineRae_51:
(8, 36239), (Start: 11 @36272 has 37 MA's), (17, 36443), (19, 36485), (23, 36611),

Gene: NatB6_51 Start: 39225, Stop: 39650, Start Num: 11
Candidate Starts for NatB6_51:
(3, 39168), (6, 39189), (Start: 11 @39225 has 37 MA's), (17, 39396), (19, 39438),

Gene: NosilaM_55 Start: 40126, Stop: 40554, Start Num: 11
Candidate Starts for NosilaM_55:
(Start: 11 @40126 has 37 MA's), (17, 40297), (25, 40495),

Gene: NovumRegina_51 Start: 39534, Stop: 39959, Start Num: 11
Candidate Starts for NovumRegina_51:
(3, 39477), (6, 39498), (Start: 11 @39534 has 37 MA's), (17, 39705), (19, 39747),

Gene: Outis_53 Start: 40125, Stop: 40553, Start Num: 11
Candidate Starts for Outis_53:
(Start: 11 @40125 has 37 MA's), (17, 40296), (24, 40488), (25, 40494),

Gene: Patio_55 Start: 40391, Stop: 40819, Start Num: 11
Candidate Starts for Patio_55:
(Start: 11 @40391 has 37 MA's), (15, 40481), (16, 40490), (17, 40562), (25, 40760),

Gene: Phomeo_50 Start: 39803, Stop: 40228, Start Num: 11
Candidate Starts for Phomeo_50:
(3, 39746), (6, 39767), (Start: 11 @39803 has 37 MA's), (17, 39974), (19, 40016),

Gene: Pleakley_59 Start: 39332, Stop: 39745, Start Num: 11
Candidate Starts for Pleakley_59:
(9, 39305), (Start: 11 @39332 has 37 MA's), (15, 39422), (16, 39431), (17, 39503), (19, 39545), (20, 39599), (23, 39671), (25, 39701),

Gene: RedRaider_59 Start: 42413, Stop: 42841, Start Num: 11
Candidate Starts for RedRaider_59:
(4, 42368), (7, 42377), (9, 42386), (Start: 11 @42413 has 37 MA's), (15, 42503), (16, 42512), (25, 42782),

Gene: Scuba_60 Start: 39406, Stop: 39819, Start Num: 11
Candidate Starts for Scuba_60:
(9, 39379), (Start: 11 @39406 has 37 MA's), (15, 39496), (16, 39505), (17, 39577), (19, 39619), (20, 39673), (23, 39745), (25, 39775),

Gene: Skysand_54 Start: 40611, Stop: 41039, Start Num: 11
Candidate Starts for Skysand_54:
(Start: 11 @40611 has 37 MA's), (15, 40701), (16, 40710), (25, 40980),

Gene: StarStruck_53 Start: 40125, Stop: 40553, Start Num: 11
Candidate Starts for StarStruck_53:
(Start: 11 @40125 has 37 MA's), (17, 40296), (24, 40488), (25, 40494),

Gene: Sukkupi_52 Start: 38578, Stop: 39006, Start Num: 11
Candidate Starts for Sukkupi_52:
(4, 38533), (5, 38536), (8, 38545), (Start: 11 @38578 has 37 MA's), (17, 38749), (19, 38791), (23, 38917), (24, 38941),

Gene: SuperSulley_53 Start: 40293, Stop: 40721, Start Num: 11
Candidate Starts for SuperSulley_53:
(Start: 11 @40293 has 37 MA's), (17, 40464), (25, 40662),

Gene: Tracker_51 Start: 38952, Stop: 39377, Start Num: 11
Candidate Starts for Tracker_51:
(3, 38895), (6, 38916), (Start: 11 @38952 has 37 MA's), (17, 39123), (19, 39165),

Gene: Turuncu_56 Start: 40541, Stop: 40978, Start Num: 11
Candidate Starts for Turuncu_56:
(1, 40457), (2, 40472), (7, 40502), (9, 40511), (Start: 11 @40541 has 37 MA's), (15, 40631), (17, 40712), (19, 40754), (21, 40814), (25, 40910),

Gene: Wheezy_51 Start: 39157, Stop: 39582, Start Num: 11
Candidate Starts for Wheezy_51:
(3, 39100), (6, 39121), (Start: 11 @39157 has 37 MA's), (17, 39328), (19, 39370),

Gene: WhoseManz_52 Start: 36638, Stop: 37066, Start Num: 11
Candidate Starts for WhoseManz_52:
(8, 36605), (Start: 11 @36638 has 37 MA's), (17, 36809), (19, 36851), (23, 36977),

Gene: Yndexa_52 Start: 38578, Stop: 39006, Start Num: 11
Candidate Starts for Yndexa_52:
(4, 38533), (5, 38536), (8, 38545), (Start: 11 @38578 has 37 MA's), (17, 38749), (19, 38791), (23, 38917), (24, 38941),