Pham 291066

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 291066 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291066 has 85 members, 15 are drafts.

Phages represented in each track:
• Track 1 : ThursdayNight_54
• Track 2 : Cassia_50
• Track 3 : Mudpuppy_48, Community_55, Cyan_52, Lizalica_51, Tuck_55
• Track 4 : Wildwest_51
• Track 5 : AEgle_48, Adumb2043_49, Turab_49
• Track 6 : Lego_51, Kaylissa_53
• Track 7 : DrManhattan_54, Adolin_55
• Track 8 : TforTroy_52, Tallboi_51
• Track 9 : AGrandiflora_54, Flutur_51, Powerpuff_54, YesChef_52, Simpson_54, Joemato_52
• Track 10 : Crewmate_57, ObiToo_56
• Track 11 : Warda_52, Tbone_52
• Track 12 : Iter_53, Ascela_53
• Track 13 : Niobe_50, Jstan_52, Elezi_50, Skelbel_51, Asa16_50, Eraser_50, London_50, Subaru_51
• Track 14 : DrSierra_50
• Track 15 : Yang_51
• Track 16 : Nitro_53
• Track 17 : JohnDoe_52
• Track 18 : Tian_52, Amyev_53
• Track 19 : Sue2_52
• Track 20 : KeAlii_49
• Track 21 : JuneStar_53
• Track 22 : IttyBittyPiggy_52
• Track 23 : Amploria_50
• Track 24 : Pumpkins_50
• Track 25 : Tutumahutu_53
• Track 26 : Reedo_51
• Track 27 : Janeemi_54
• Track 28 : Pixelle_54
• Track 29 : MissSwiss_54
• Track 30 : Schaffner_51
• Track 31 : VResidence_52
• Track 32 : Phives_56
• Track 33 : Berrie_53
• Track 34 : MaGuCo_49
• Track 35 : Maureen_53, IUFootball_53, Liebe_53

• Track 36 : Snek_54, Tweety19_55
• Track 37 : Donkey_45, RockScotty_44, Sooty_45, Mysterium_44, Gumpizza_44, SpecialK_45, Halsey_45, Cappuccino_45, Kalimba_45, Giorgio_44, Ashes_45, Gambol_46, Moss_45, Beaupre_44, Stuu_45
• Track 38 : Sabourin_45
• Track 39 : Soondubu_48, Exile_46
• Track 40 : AinMach_51
• Track 41 : BaileyBlu_49
• Track 42 : CallinAllBarbz_50

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

The start number called the most often in the published annotations is 13, it was called in 44 of the 70 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AEgle_48, AGrandiflora_54, Adumb2043_49, Amploria_50, Amyev_53, Asa16_50, Ascela_53, Berrie_53, Cassia_50, Community_55, Crewmate_57, Cyan_52, DrSierra_50, Elezi_50, Eraser_50, Flutur_51, Iter_53, IttyBittyPiggy_52, Janeemi_54, Joemato_52, JohnDoe_52, Jstan_52, JuneStar_53, Kaylissa_53, KeAlii_49, Lego_51, Lizalica_51, London_50, MissSwiss_54, Mudpuppy_48, Niobe_50, Nitro_53, ObiToo_56, Phives_56, Pixelle_54, Powerpuff_54, Pumpkins_50, Reedo_51, Schaffner_51, Simpson_54, Skelbel_51, Subaru_51, Sue2_52, Tallboi_51, Tbone_52, TforTroy_52, Tian_52, Tuck_55, Turab_49, Tutumahutu_53, VResidence_52, Warda_52, Wildwest_51, Yang_51, YesChef_52,

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

Genes that do not have the "Most Annotated" start:
• Adolin_55, AinMach_51, Ashes_45, BaileyBlu_49, Beaupre_44, CallinAllBarbz_50, Cappuccino_45, Donkey_45, DrManhattan_54, Exile_46, Gambol_46, Giorgio_44, Gumpizza_44, Halsey_45, IUFootball_53, Kalimba_45, Liebe_53, MaGuCo_49, Maureen_53, Moss_45, Mysterium_44, RockScotty_44, Sabourin_45, Snek_54, Soondubu_48, Sooty_45, SpecialK_45, Stuu_45, ThursdayNight_54, Tweety19_55,

Summary by start number:

Start 13:
• Found in 55 of 85 (64.7%) of genes in pham
• Manual Annotations of this start: 44 of 70
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AEgle_48 (AZ1), AGrandiflora_54 (AZ1), Adumb2043_49 (AZ1), Amploria_50 (AZ1), Amyev_53 (AZ1), Asa16_50 (AZ1), Ascela_53 (AZ1), Berrie_53 (AZ1), Cassia_50 (AZ1), Community_55 (AZ1), Crewmate_57 (AZ1), Cyan_52 (AZ1), DrSierra_50 (AZ1), Elezi_50 (AZ1), Eraser_50 (AZ1), Flutur_51 (AZ), Iter_53 (AZ1), IttyBittyPiggy_52 (AZ1), Janeemi_54 (AZ1), Joemato_52 (AZ1), JohnDoe_52 (AZ1), Jstan_52 (AZ1), JuneStar_53 (AZ1), Kaylissa_53 (AZ1), KeAlii_49 (AZ1), Lego_51 (AZ1), Lizalica_51 (AZ1), London_50 (AZ1), MissSwiss_54 (AZ1), Mudpuppy_48 (AZ1), Niobe_50 (AZ1), Nitro_53 (AZ1),

ObiToo_56 (AZ1), Phives_56 (AZ1), Pixelle_54 (AZ1), Powerpuff_54 (AZ1), Pumpkins_50 (AZ1), Reedo_51 (AZ1), Schaffner_51 (AZ1), Simpson_54 (AZ1), Skelbel_51 (AZ1), Subaru_51 (AZ1), Sue2_52 (AZ1), Tallboi_51 (AZ1), Tbone_52 (AZ1), TforTroy_52 (AZ1), Tian_52 (AZ1), Tuck_55 (AZ1), Turab_49 (AZ1), Tutumahutu_53 (AZ1), VResidence_52 (AZ1), Warda_52 (AZ1), Wildwest_51 (AZ1), Yang_51 (AZ1), YesChef_52 (AZ1),

Start 14:
• Found in 2 of 85 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 70
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Exile_46 (AZ6), Soondubu_48 (AZ6),

Start 15:
• Found in 4 of 85 (4.7%) of genes in pham
• Manual Annotations of this start: 3 of 70
• Called 100.0% of time when present
• Phage (with cluster) where this start called: IUFootball_53 (AZ2), Liebe_53 (AZ2), MaGuCo_49 (AZ2), Maureen_53 (AZ2),

Start 17:
• Found in 16 of 85 (18.8%) of genes in pham
• Manual Annotations of this start: 16 of 70
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ashes_45 (AZ5), Beaupre_44 (AZ5), Cappuccino_45 (AZ5), Donkey_45 (AZ5), Gambol_46 (AZ5), Giorgio_44 (AZ5), Gumpizza_44 (AZ5), Halsey_45 (AZ5), Kalimba_45 (AZ5), Moss_45 (AZ5), Mysterium_44 (AZ5), RockScotty_44 (AZ5), Sabourin_45 (AZ5), Sooty_45 (AZ5), SpecialK_45 (AZ5), Stuu_45 (AZ5),

Start 18:
• Found in 6 of 85 (7.1%) of genes in pham
• Manual Annotations of this start: 4 of 70
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adolin_55 (AZ1), AinMach_51 (AZ7), BaileyBlu_49 (FP), CallinAllBarbz_50 (FP), DrManhattan_54 (AZ1), ThursdayNight_54 (AZ),

Start 19:
• Found in 2 of 85 (2.4%) of genes in pham
• Manual Annotations of this start: 2 of 70
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Snek_54 (AZ3), Tweety19_55 (AZ3),

Summary by clusters:

There are 8 clusters represented in this pham: FP, AZ, AZ1, AZ2, AZ3, AZ5, AZ6, AZ7,

Info for manual annotations of cluster AZ1:
•Start number 13 was manually annotated 44 times for cluster AZ1.
•Start number 18 was manually annotated 2 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 15 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 19 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ5:
•Start number 17 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster AZ6:
•Start number 14 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster FP:
•Start number 18 was manually annotated 2 times for cluster FP.

Gene Information:
Gene: AEgle_48 Start: 36313, Stop: 36537, Start Num: 13
Candidate Starts for AEgle_48:
(Start: 13 @36313 has 44 MA's), (37, 36523),

Gene: AGrandiflora_54 Start: 37650, Stop: 37871, Start Num: 13
Candidate Starts for AGrandiflora_54:
(Start: 13 @37650 has 44 MA's), (27, 37764), (37, 37857),

Gene: Adolin_55 Start: 36749, Stop: 36955, Start Num: 18
Candidate Starts for Adolin_55:
(Start: 18 @36749 has 4 MA's), (20, 36755), (27, 36839), (37, 36941),

Gene: Adumb2043_49 Start: 36334, Stop: 36558, Start Num: 13
Candidate Starts for Adumb2043_49:
(Start: 13 @36334 has 44 MA's), (37, 36544),

Gene: AinMach_51 Start: 36840, Stop: 37037, Start Num: 18
Candidate Starts for AinMach_51:
(Start: 18 @36840 has 4 MA's), (26, 36918), (32, 36996), (33, 36999), (35, 37008), (37, 37023),

Gene: Amploria_50 Start: 36517, Stop: 36741, Start Num: 13
Candidate Starts for Amploria_50:
(10, 36217), (Start: 13 @36517 has 44 MA's), (37, 36727),

Gene: Amyev_53 Start: 39795, Stop: 39995, Start Num: 13
Candidate Starts for Amyev_53:
(Start: 13 @39795 has 44 MA's), (37, 39981),

Gene: Asa16_50 Start: 37882, Stop: 38112, Start Num: 13
Candidate Starts for Asa16_50:
(Start: 13 @37882 has 44 MA's), (27, 37999), (37, 38098),

Gene: Ascela_53 Start: 37957, Stop: 38187, Start Num: 13
Candidate Starts for Ascela_53:
(Start: 13 @37957 has 44 MA's), (27, 38074), (37, 38173),

Gene: Ashes_45 Start: 33455, Stop: 33667, Start Num: 17
Candidate Starts for Ashes_45:
(12, 33218), (Start: 17 @33455 has 16 MA's), (24, 33521),

Gene: BaileyBlu_49 Start: 35978, Stop: 36187, Start Num: 18
Candidate Starts for BaileyBlu_49:
(16, 35963), (Start: 18 @35978 has 4 MA's), (22, 36026), (34, 36152), (37, 36173),

Gene: Beaupre_44 Start: 33265, Stop: 33477, Start Num: 17
Candidate Starts for Beaupre_44:
(12, 33028), (Start: 17 @33265 has 16 MA's), (24, 33331),

Gene: Berrie_53 Start: 38048, Stop: 38266, Start Num: 13
Candidate Starts for Berrie_53:
(Start: 13 @38048 has 44 MA's), (22, 38114), (27, 38156), (37, 38252),

Gene: CallinAllBarbz_50 Start: 36450, Stop: 36644, Start Num: 18
Candidate Starts for CallinAllBarbz_50:
(Start: 18 @36450 has 4 MA's), (22, 36498), (34, 36609), (37, 36630),

Gene: Cappuccino_45 Start: 33320, Stop: 33532, Start Num: 17
Candidate Starts for Cappuccino_45:
(12, 33083), (Start: 17 @33320 has 16 MA's), (24, 33386),

Gene: Cassia_50 Start: 37073, Stop: 37303, Start Num: 13
Candidate Starts for Cassia_50:
(Start: 13 @37073 has 44 MA's), (27, 37190), (31, 37238), (37, 37289),

Gene: Community_55 Start: 39440, Stop: 39658, Start Num: 13
Candidate Starts for Community_55:
(Start: 13 @39440 has 44 MA's), (27, 39548), (37, 39644),

Gene: Crewmate_57 Start: 38837, Stop: 39067, Start Num: 13
Candidate Starts for Crewmate_57:
(7, 38405), (Start: 13 @38837 has 44 MA's), (27, 38954), (31, 39002), (37, 39053),

Gene: Cyan_52 Start: 37207, Stop: 37428, Start Num: 13
Candidate Starts for Cyan_52:
(Start: 13 @37207 has 44 MA's), (27, 37321), (37, 37414),

Gene: Donkey_45 Start: 33310, Stop: 33522, Start Num: 17
Candidate Starts for Donkey_45:
(12, 33073), (Start: 17 @33310 has 16 MA's), (24, 33376),

Gene: DrManhattan_54 Start: 36317, Stop: 36523, Start Num: 18
Candidate Starts for DrManhattan_54:
(Start: 18 @36317 has 4 MA's), (20, 36323), (27, 36407), (37, 36509),

Gene: DrSierra_50 Start: 36034, Stop: 36258, Start Num: 13

Candidate Starts for DrSierra_50:
(11, 35728), (Start: 13 @36034 has 44 MA's), (37, 36244),

Gene: Elezi_50 Start: 37880, Stop: 38110, Start Num: 13
Candidate Starts for Elezi_50:
(Start: 13 @37880 has 44 MA's), (27, 37997), (37, 38096),

Gene: Eraser_50 Start: 37889, Stop: 38119, Start Num: 13
Candidate Starts for Eraser_50:
(Start: 13 @37889 has 44 MA's), (27, 38006), (37, 38105),

Gene: Exile_46 Start: 39253, Stop: 39480, Start Num: 14
Candidate Starts for Exile_46:
(Start: 14 @39253 has 1 MA's), (23, 39328), (37, 39466),

Gene: Flutur_51 Start: 37516, Stop: 37737, Start Num: 13
Candidate Starts for Flutur_51:
(Start: 13 @37516 has 44 MA's), (27, 37630), (37, 37723),

Gene: Gambol_46 Start: 33329, Stop: 33541, Start Num: 17
Candidate Starts for Gambol_46:
(12, 33092), (Start: 17 @33329 has 16 MA's), (24, 33395),

Gene: Giorgio_44 Start: 33248, Stop: 33460, Start Num: 17
Candidate Starts for Giorgio_44:
(12, 33011), (Start: 17 @33248 has 16 MA's), (24, 33314),

Gene: Gumpizza_44 Start: 33204, Stop: 33416, Start Num: 17
Candidate Starts for Gumpizza_44:
(12, 32967), (Start: 17 @33204 has 16 MA's), (24, 33270),

Gene: Halsey_45 Start: 33457, Stop: 33669, Start Num: 17
Candidate Starts for Halsey_45:
(12, 33220), (Start: 17 @33457 has 16 MA's), (24, 33523),

Gene: IUFootball_53 Start: 39401, Stop: 39613, Start Num: 15
Candidate Starts for IUFootball_53:
(Start: 15 @39401 has 3 MA's), (21, 39455), (37, 39599),

Gene: Iter_53 Start: 37949, Stop: 38179, Start Num: 13
Candidate Starts for Iter_53:
(Start: 13 @37949 has 44 MA's), (27, 38066), (37, 38165),

Gene: IttyBittyPiggy_52 Start: 36661, Stop: 36891, Start Num: 13
Candidate Starts for IttyBittyPiggy_52:
(Start: 13 @36661 has 44 MA's), (31, 36826), (37, 36877),

Gene: Janeemi_54 Start: 38904, Stop: 39122, Start Num: 13
Candidate Starts for Janeemi_54:
(Start: 13 @38904 has 44 MA's), (27, 39012), (37, 39108),

Gene: Joemato_52 Start: 37287, Stop: 37508, Start Num: 13
Candidate Starts for Joemato_52:

(Start: 13 @37287 has 44 MA's), (27, 37401), (37, 37494),

Gene: JohnDoe_52 Start: 37271, Stop: 37492, Start Num: 13
Candidate Starts for JohnDoe_52:
(Start: 13 @37271 has 44 MA's), (27, 37385), (37, 37478),

Gene: Jstan_52 Start: 37884, Stop: 38114, Start Num: 13
Candidate Starts for Jstan_52:
(Start: 13 @37884 has 44 MA's), (27, 38001), (37, 38100),

Gene: JuneStar_53 Start: 40003, Stop: 40233, Start Num: 13
Candidate Starts for JuneStar_53:
(Start: 13 @40003 has 44 MA's), (37, 40219),

Gene: Kalimba_45 Start: 33307, Stop: 33519, Start Num: 17
Candidate Starts for Kalimba_45:
(12, 33070), (Start: 17 @33307 has 16 MA's), (24, 33373),

Gene: Kaylissa_53 Start: 37666, Stop: 37887, Start Num: 13
Candidate Starts for Kaylissa_53:
(Start: 13 @37666 has 44 MA's), (27, 37780), (37, 37873),

Gene: KeAlii_49 Start: 36858, Stop: 37082, Start Num: 13
Candidate Starts for KeAlii_49:
(Start: 13 @36858 has 44 MA's), (22, 36930), (37, 37068),

Gene: Lego_51 Start: 36986, Stop: 37207, Start Num: 13
Candidate Starts for Lego_51:
(Start: 13 @36986 has 44 MA's), (27, 37100), (37, 37193),

Gene: Liebe_53 Start: 39401, Stop: 39613, Start Num: 15
Candidate Starts for Liebe_53:
(Start: 15 @39401 has 3 MA's), (21, 39455), (37, 39599),

Gene: Lizalica_51 Start: 36731, Stop: 36952, Start Num: 13
Candidate Starts for Lizalica_51:
(Start: 13 @36731 has 44 MA's), (27, 36845), (37, 36938),

Gene: London_50 Start: 37880, Stop: 38110, Start Num: 13
Candidate Starts for London_50:
(Start: 13 @37880 has 44 MA's), (27, 37997), (37, 38096),

Gene: MaGuCo_49 Start: 38092, Stop: 38304, Start Num: 15
Candidate Starts for MaGuCo_49:
(Start: 15 @38092 has 3 MA's), (21, 38146), (29, 38215), (37, 38290),

Gene: Maureen_53 Start: 39400, Stop: 39612, Start Num: 15
Candidate Starts for Maureen_53:
(Start: 15 @39400 has 3 MA's), (21, 39454), (37, 39598),

Gene: MissSwiss_54 Start: 36480, Stop: 36698, Start Num: 13
Candidate Starts for MissSwiss_54:
(Start: 13 @36480 has 44 MA's), (27, 36588), (37, 36684),

Gene: Moss_45 Start: 33397, Stop: 33609, Start Num: 17
Candidate Starts for Moss_45:
(12, 33160), (Start: 17 @33397 has 16 MA's), (24, 33463),

Gene: Mudpuppy_48 Start: 36915, Stop: 37136, Start Num: 13
Candidate Starts for Mudpuppy_48:
(Start: 13 @36915 has 44 MA's), (27, 37029), (37, 37122),

Gene: Mysterium_44 Start: 33230, Stop: 33442, Start Num: 17
Candidate Starts for Mysterium_44:
(12, 32993), (Start: 17 @33230 has 16 MA's), (24, 33296),

Gene: Niobe_50 Start: 37883, Stop: 38113, Start Num: 13
Candidate Starts for Niobe_50:
(Start: 13 @37883 has 44 MA's), (27, 38000), (37, 38099),

Gene: Nitro_53 Start: 38988, Stop: 39218, Start Num: 13
Candidate Starts for Nitro_53:
(10, 38691), (Start: 13 @38988 has 44 MA's), (27, 39105), (37, 39204),

Gene: ObiToo_56 Start: 38231, Stop: 38461, Start Num: 13
Candidate Starts for ObiToo_56:
(7, 37799), (Start: 13 @38231 has 44 MA's), (27, 38348), (31, 38396), (37, 38447),

Gene: Phives_56 Start: 39558, Stop: 39776, Start Num: 13
Candidate Starts for Phives_56:
(3, 38994), (6, 39162), (Start: 13 @39558 has 44 MA's), (27, 39666), (37, 39762),

Gene: Pixelle_54 Start: 40140, Stop: 40340, Start Num: 13
Candidate Starts for Pixelle_54:
(Start: 13 @40140 has 44 MA's), (37, 40326),

Gene: Powerpuff_54 Start: 38373, Stop: 38594, Start Num: 13
Candidate Starts for Powerpuff_54:
(Start: 13 @38373 has 44 MA's), (27, 38487), (37, 38580),

Gene: Pumpkins_50 Start: 37746, Stop: 37976, Start Num: 13
Candidate Starts for Pumpkins_50:
(8, 37368), (Start: 13 @37746 has 44 MA's), (37, 37962),

Gene: Reedo_51 Start: 35724, Stop: 35936, Start Num: 13
Candidate Starts for Reedo_51:
(Start: 13 @35724 has 44 MA's), (22, 35784), (37, 35922),

Gene: RockScotty_44 Start: 33228, Stop: 33440, Start Num: 17
Candidate Starts for RockScotty_44:
(12, 32991), (Start: 17 @33228 has 16 MA's), (24, 33294),

Gene: Sabourin_45 Start: 33308, Stop: 33520, Start Num: 17
Candidate Starts for Sabourin_45:
(Start: 17 @33308 has 16 MA's), (24, 33374),

Gene: Schaffner_51 Start: 37680, Stop: 37910, Start Num: 13
Candidate Starts for Schaffner_51:
(Start: 13 @37680 has 44 MA's), (37, 37896),

Gene: Simpson_54 Start: 37291, Stop: 37512, Start Num: 13
Candidate Starts for Simpson_54:
(Start: 13 @37291 has 44 MA's), (27, 37405), (37, 37498),

Gene: Skelbel_51 Start: 37883, Stop: 38113, Start Num: 13
Candidate Starts for Skelbel_51:
(Start: 13 @37883 has 44 MA's), (27, 38000), (37, 38099),

Gene: Snek_54 Start: 36857, Stop: 37057, Start Num: 19
Candidate Starts for Snek_54:
(Start: 19 @36857 has 2 MA's), (22, 36902), (29, 36965), (30, 36983), (31, 36995), (37, 37043),

Gene: Soondubu_48 Start: 39736, Stop: 39963, Start Num: 14
Candidate Starts for Soondubu_48:
(Start: 14 @39736 has 1 MA's), (23, 39811), (37, 39949),

Gene: Sooty_45 Start: 33322, Stop: 33534, Start Num: 17
Candidate Starts for Sooty_45:
(12, 33085), (Start: 17 @33322 has 16 MA's), (24, 33388),

Gene: SpecialK_45 Start: 33306, Stop: 33518, Start Num: 17
Candidate Starts for SpecialK_45:
(12, 33069), (Start: 17 @33306 has 16 MA's), (24, 33372),

Gene: Stuu_45 Start: 33420, Stop: 33632, Start Num: 17
Candidate Starts for Stuu_45:
(12, 33183), (Start: 17 @33420 has 16 MA's), (24, 33486),

Gene: Subaru_51 Start: 37880, Stop: 38110, Start Num: 13
Candidate Starts for Subaru_51:
(Start: 13 @37880 has 44 MA's), (27, 37997), (37, 38096),

Gene: Sue2_52 Start: 37060, Stop: 37284, Start Num: 13
Candidate Starts for Sue2_52:
(1, 36403), (2, 36421), (4, 36535), (5, 36604), (9, 36670), (Start: 13 @37060 has 44 MA's), (37, 37270),

Gene: Tallboi_51 Start: 38238, Stop: 38468, Start Num: 13
Candidate Starts for Tallboi_51:
(Start: 13 @38238 has 44 MA's), (27, 38355), (37, 38454),

Gene: Tbone_52 Start: 37857, Stop: 38078, Start Num: 13
Candidate Starts for Tbone_52:
(Start: 13 @37857 has 44 MA's), (27, 37971), (37, 38064),

Gene: TforTroy_52 Start: 37603, Stop: 37833, Start Num: 13
Candidate Starts for TforTroy_52:
(Start: 13 @37603 has 44 MA's), (27, 37720), (37, 37819),

Gene: ThursdayNight_54 Start: 38504, Stop: 38701, Start Num: 18

Candidate Starts for ThursdayNight_54:
(Start: 18 @38504 has 4 MA's), (25, 38582), (30, 38633), (36, 38681), (37, 38687),

Gene: Tian_52 Start: 39795, Stop: 39995, Start Num: 13
Candidate Starts for Tian_52:
(Start: 13 @39795 has 44 MA's), (37, 39981),

Gene: Tuck_55 Start: 39348, Stop: 39566, Start Num: 13
Candidate Starts for Tuck_55:
(Start: 13 @39348 has 44 MA's), (27, 39456), (37, 39552),

Gene: Turab_49 Start: 36357, Stop: 36581, Start Num: 13
Candidate Starts for Turab_49:
(Start: 13 @36357 has 44 MA's), (37, 36567),

Gene: Tutumahutu_53 Start: 37244, Stop: 37465, Start Num: 13
Candidate Starts for Tutumahutu_53:
(Start: 13 @37244 has 44 MA's), (27, 37358), (37, 37451),

Gene: Tweety19_55 Start: 36857, Stop: 37057, Start Num: 19
Candidate Starts for Tweety19_55:
(Start: 19 @36857 has 2 MA's), (22, 36902), (29, 36965), (30, 36983), (31, 36995), (37, 37043),

Gene: VResidence_52 Start: 36790, Stop: 37014, Start Num: 13
Candidate Starts for VResidence_52:
(Start: 13 @36790 has 44 MA's), (22, 36856), (28, 36901), (37, 37000),

Gene: Warda_52 Start: 37355, Stop: 37576, Start Num: 13
Candidate Starts for Warda_52:
(Start: 13 @37355 has 44 MA's), (27, 37469), (37, 37562),

Gene: Wildwest_51 Start: 37289, Stop: 37513, Start Num: 13
Candidate Starts for Wildwest_51:
(Start: 13 @37289 has 44 MA's), (37, 37499),

Gene: Yang_51 Start: 37412, Stop: 37642, Start Num: 13
Candidate Starts for Yang_51:
(Start: 13 @37412 has 44 MA's), (27, 37529), (31, 37577), (37, 37628),

Gene: YesChef_52 Start: 37232, Stop: 37453, Start Num: 13
Candidate Starts for YesChef_52:
(Start: 13 @37232 has 44 MA's), (27, 37346), (37, 37439),