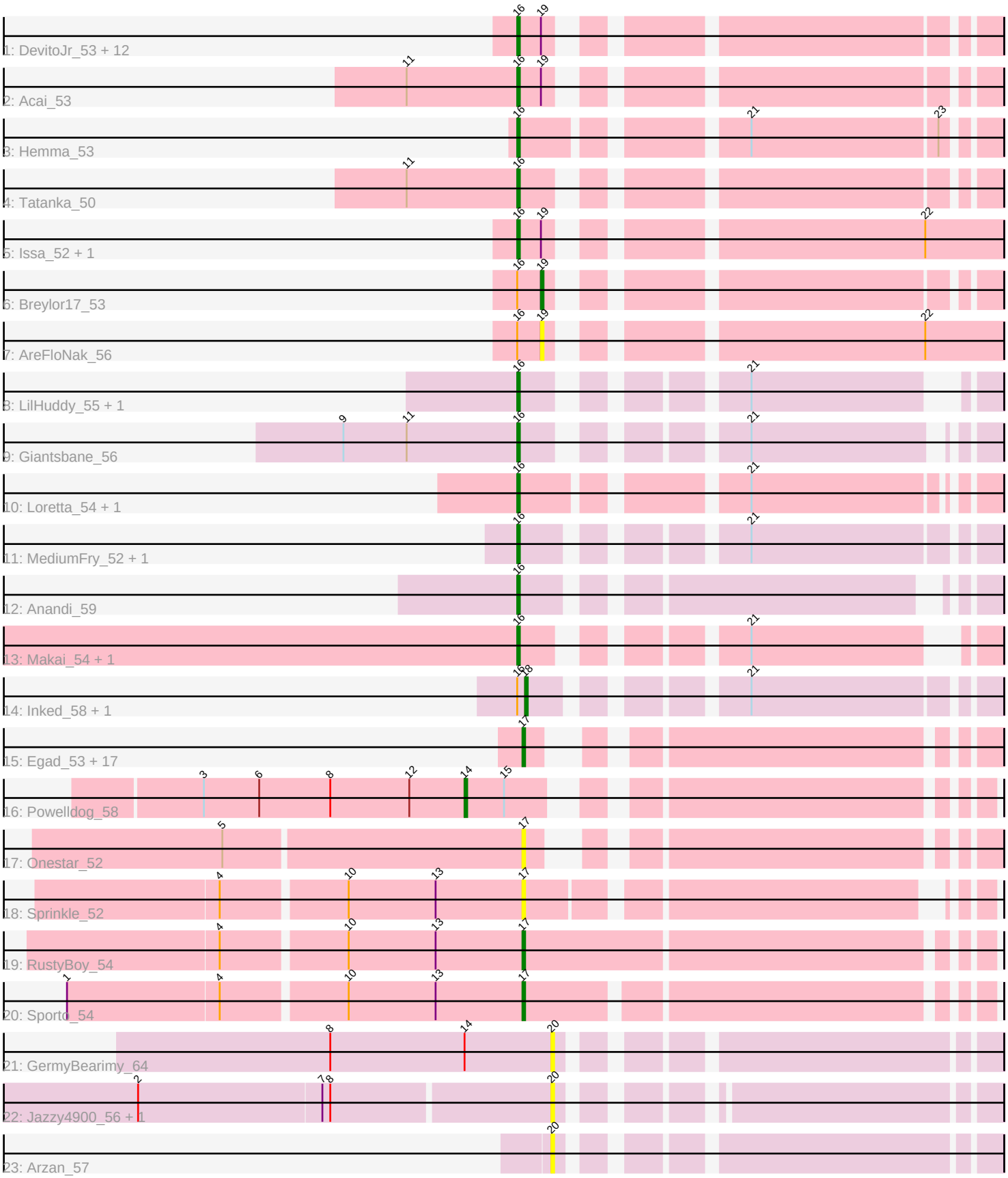
Pham 345775


1: DevitoJr_53 + 12
2: Acai_53
3: Hemma_53
4: Tatanka_50
5: Issa_52 + 1
6: Breylor17_53
7: AreFloNak_56
8: LilHuddy_55 + 1
9: Giantsbane_56
10: Loretta_54 + 1
11: MediumFry_52 + 1
12: Anandi_59
13: Makai_54 + 1
14: Inked_58 + 1
15: Egad_53 + 17
16: Powelldog_58
17: Onestar_52
18: Sprinkle_52
19: RustyBoy_54
20: Sporto_54
21: GermyBearimy_64
22: Jazzy4900_56 + 1
23: Arzan_57

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 345775 Report

This analysis was run 11/14/26 on database version 672.

Pham number 345775 has 59 members, 12 are drafts.

Phages represented in each track:
• Track 1 : DevitoJr_53, Trustiboi_53, Nightmare_55, ScienceWizSam_54, Synepsis_52, Dinallo_52, Niktson_53, Westerlin_52, ElephantMan_53, Brunswick_54, CastorTray_56, Tenno_54, Darby_52
• Track 2 : Acai_53
• Track 3 : Hemma_53
• Track 4 : Tatanka_50
• Track 5 : Issa_52, Nivinsha_55
• Track 6 : Breylor17_53
• Track 7 : AreFloNak_56
• Track 8 : LilHuddy_55, Shepard_56
• Track 9 : Giantsbane_56
• Track 10 : Loretta_54, Ingrid_57
• Track 11 : MediumFry_52, Caterpillar_51
• Track 12 : Anandi_59
• Track 13 : Makai_54, Truckee_52
• Track 14 : Inked_58, Zippen_57
• Track 15 : Egad_53, HerbBucket_53, DoctorPepper_52, Djungelskog_52, Jeremy4pt0_52, Spain_55, Stayer_53, MrAaronian_53, Sloopyjoe_53, Salk_53, Linda_53, Boog_52, BronxBay_53, Raunak_53, StarLord_53, Shiba_52, Michelle_53, ProfFrink_53
• Track 16 : Powelldog_58
• Track 17 : Onestar_52
• Track 18 : Sprinkle_52
• Track 19 : RustyBoy_54
• Track 20 : Sporto_54
• Track 21 : GermyBearimy_64
• Track 22 : Jazzy4900_56, Sunny4976_55
• Track 23 : Arzan_57

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

The start number called the most often in the published annotations is 16, it was called in 25 of the 47 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acai_53, Anandi_59, Brunswick_54, CastorTray_56, Caterpillar_51, Darby_52, DevitoJr_53, Dinallo_52, ElephantMan_53, Giantsbane_56, Hemma_53, Ingrid_57, Issa_52, LilHuddy_55, Loretta_54, Makai_54, MediumFry_52, Nightmare_55, Niktson_53, Nivinsha_55, ScienceWizSam_54, Shepard_56, Synepsis_52, Tatanka_50, Tenno_54, Truckee_52, Trustiboi_53, Westerlin_52,

Genes that have the "Most Annotated" start but do not call it:
• AreFloNak_56, Breylor17_53, Inked_58, Zippen_57,

Genes that do not have the "Most Annotated" start:
• Arzan_57, Boog_52, BronxBay_53, Djungelskog_52, DoctorPepper_52, Egad_53, GermyBearimy_64, HerbBucket_53, Jazzy4900_56, Jeremy4pt0_52, Linda_53, Michelle_53, MrAaronian_53, Onestar_52, Powelldog_58, ProfFrink_53, Raunak_53, RustyBoy_54, Salk_53, Shiba_52, Sloopyjoe_53, Spain_55, Sporto_54, Sprinkle_52, StarLord_53, Stayer_53, Sunny4976_55,

Summary by start number:

Start 14:
• Found in 2 of 59 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 47
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Powelldog_58 (AW),

Start 16:
• Found in 32 of 59 (54.2%) of genes in pham
• Manual Annotations of this start: 25 of 47
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Acai_53 (AU1), Anandi_59 (AU4), Brunswick_54 (AU1), CastorTray_56 (AU1), Caterpillar_51 (AU4), Darby_52 (AU1), DevitoJr_53 (AU1), Dinallo_52 (AU1), ElephantMan_53 (AU1), Giantsbane_56 (AU2), Hemma_53 (AU1), Ingrid_57 (AU3), Issa_52 (AU1), LilHuddy_55 (AU2), Loretta_54 (AU3), Makai_54 (AU5), MediumFry_52 (AU4), Nightmare_55 (AU1), Niktson_53 (AU1), Nivinsha_55 (AU1), ScienceWizSam_54 (AU1), Shepard_56 (AU2), Synepsis_52 (AU1), Tatanka_50 (AU1), Tenno_54 (AU1), Truckee_52 (AU5), Trustiboi_53 (AU1), Westerlin_52 (AU1),

Start 17:
• Found in 22 of 59 (37.3%) of genes in pham
• Manual Annotations of this start: 18 of 47
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Boog_52 (AW), BronxBay_53 (AW), Djungelskog_52 (AW), DoctorPepper_52 (AW), Egad_53 (AW), HerbBucket_53 (AW), Jeremy4pt0_52 (AW), Linda_53 (AW), Michelle_53 (AW), MrAaronian_53 (AW), Onestar_52 (AW), ProfFrink_53 (AW), Raunak_53 (AW), RustyBoy_54 (AW), Salk_53 (AW), Shiba_52 (AW), Sloopyjoe_53 (AW), Spain_55 (AW), Sporto_54 (AW), Sprinkle_52 (AW), StarLord_53 (AW), Stayer_53 (AW),

Start 18:
• Found in 2 of 59 (3.4%) of genes in pham
• Manual Annotations of this start: 2 of 47
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Inked_58 (AU7), Zippen_57 (AU7),

Start 19:
• Found in 18 of 59 (30.5%) of genes in pham
• Manual Annotations of this start: 1 of 47
• Called 11.1% of time when present
• Phage (with cluster) where this start called: AreFloNak_56 (AU1), Breylor17_53 (AU1),

Start 20:
• Found in 4 of 59 (6.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arzan_57 (FI), GermyBearimy_64 (FI), Jazzy4900_56 (FI), Sunny4976_55 (FI),

Summary by clusters:

There are 8 clusters represented in this pham: AU7, AU1, AU3, AU2, AU5, AU4, AW, FI,

Info for manual annotations of cluster AU1:
•Start number 16 was manually annotated 15 times for cluster AU1.
•Start number 19 was manually annotated 1 time for cluster AU1.

Info for manual annotations of cluster AU2:
•Start number 16 was manually annotated 3 times for cluster AU2.

Info for manual annotations of cluster AU3:
•Start number 16 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:
•Start number 16 was manually annotated 3 times for cluster AU4.

Info for manual annotations of cluster AU5:
•Start number 16 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU7:
•Start number 18 was manually annotated 2 times for cluster AU7.

Info for manual annotations of cluster AW:
•Start number 14 was manually annotated 1 time for cluster AW.
•Start number 17 was manually annotated 18 times for cluster AW.

Gene Information:

Gene: Acai_53 Start: 37148, Stop: 37300, Start Num: 16
Candidate Starts for Acai_53:
(11, 37106), (Start: 16 @37148 has 25 MA's), (Start: 19 @37157 has 1 MA's),

Gene: Anandi_59 Start: 37497, Stop: 37646, Start Num: 16
Candidate Starts for Anandi_59:
(Start: 16 @37497 has 25 MA's),

Gene: AreFloNak_56 Start: 37115, Stop: 37267, Start Num: 19
Candidate Starts for AreFloNak_56:
(Start: 16 @37106 has 25 MA's), (Start: 19 @37115 has 1 MA's), (22, 37238),

Gene: Arzan_57 Start: 36656, Stop: 36799, Start Num: 20
Candidate Starts for Arzan_57:
(20, 36656),

Gene: Boog_52 Start: 34544, Stop: 34687, Start Num: 17
Candidate Starts for Boog_52:
(Start: 17 @34544 has 18 MA's),

Gene: Breylor17_53 Start: 37706, Stop: 37849, Start Num: 19
Candidate Starts for Breylor17_53:
(Start: 16 @37697 has 25 MA's), (Start: 19 @37706 has 1 MA's),

Gene: BronxBay_53 Start: 34842, Stop: 34985, Start Num: 17
Candidate Starts for BronxBay_53:
(Start: 17 @34842 has 18 MA's),

Gene: Brunswick_54 Start: 36988, Stop: 37140, Start Num: 16
Candidate Starts for Brunswick_54:
(Start: 16 @36988 has 25 MA's), (Start: 19 @36997 has 1 MA's),

Gene: CastorTray_56 Start: 37761, Stop: 37913, Start Num: 16
Candidate Starts for CastorTray_56:
(Start: 16 @37761 has 25 MA's), (Start: 19 @37770 has 1 MA's),

Gene: Caterpillar_51 Start: 36250, Stop: 36402, Start Num: 16
Candidate Starts for Caterpillar_51:
(Start: 16 @36250 has 25 MA's), (21, 36316),

Gene: Darby_52 Start: 36935, Stop: 37087, Start Num: 16
Candidate Starts for Darby_52:
(Start: 16 @36935 has 25 MA's), (Start: 19 @36944 has 1 MA's),

Gene: DevitoJr_53 Start: 37327, Stop: 37479, Start Num: 16
Candidate Starts for DevitoJr_53:
(Start: 16 @37327 has 25 MA's), (Start: 19 @37336 has 1 MA's),

Gene: Dinallo_52 Start: 38199, Stop: 38351, Start Num: 16
Candidate Starts for Dinallo_52:
(Start: 16 @38199 has 25 MA's), (Start: 19 @38208 has 1 MA's),

Gene: Djungelskog_52 Start: 34841, Stop: 34984, Start Num: 17
Candidate Starts for Djungelskog_52:
(Start: 17 @34841 has 18 MA's),

Gene: DoctorPepper_52 Start: 34546, Stop: 34689, Start Num: 17

Candidate Starts for DoctorPepper_52:
(Start: 17 @34546 has 18 MA's),

Gene: Egad_53 Start: 34843, Stop: 34986, Start Num: 17
Candidate Starts for Egad_53:
(Start: 17 @34843 has 18 MA's),

Gene: ElephantMan_53 Start: 37611, Stop: 37763, Start Num: 16
Candidate Starts for ElephantMan_53:
(Start: 16 @37611 has 25 MA's), (Start: 19 @37620 has 1 MA's),

Gene: GermyBearimy_64 Start: 38020, Stop: 38163, Start Num: 20
Candidate Starts for GermyBearimy_64:
(8, 37936), (Start: 14 @37987 has 1 MA's), (20, 38020),

Gene: Giantsbane_56 Start: 36218, Stop: 36361, Start Num: 16
Candidate Starts for Giantsbane_56:
(9, 36152), (11, 36176), (Start: 16 @36218 has 25 MA's), (21, 36281),

Gene: Hemma_53 Start: 34050, Stop: 34208, Start Num: 16
Candidate Starts for Hemma_53:
(Start: 16 @34050 has 25 MA's), (21, 34122), (23, 34191),

Gene: HerbBucket_53 Start: 34541, Stop: 34684, Start Num: 17
Candidate Starts for HerbBucket_53:
(Start: 17 @34541 has 18 MA's),

Gene: Ingrid_57 Start: 37031, Stop: 37186, Start Num: 16
Candidate Starts for Ingrid_57:
(Start: 16 @37031 has 25 MA's), (21, 37103),

Gene: Inked_58 Start: 38160, Stop: 38309, Start Num: 18
Candidate Starts for Inked_58:
(Start: 16 @38157 has 25 MA's), (Start: 18 @38160 has 2 MA's), (21, 38223),

Gene: Issa_52 Start: 36978, Stop: 37139, Start Num: 16
Candidate Starts for Issa_52:
(Start: 16 @36978 has 25 MA's), (Start: 19 @36987 has 1 MA's), (22, 37110),

Gene: Jazzy4900_56 Start: 37435, Stop: 37575, Start Num: 20
Candidate Starts for Jazzy4900_56:
(2, 37282), (7, 37351), (8, 37354), (20, 37435),

Gene: Jeremy4pt0_52 Start: 34541, Stop: 34684, Start Num: 17
Candidate Starts for Jeremy4pt0_52:
(Start: 17 @34541 has 18 MA's),

Gene: LilHuddy_55 Start: 37156, Stop: 37296, Start Num: 16
Candidate Starts for LilHuddy_55:
(Start: 16 @37156 has 25 MA's), (21, 37219),

Gene: Linda_53 Start: 34839, Stop: 34982, Start Num: 17
Candidate Starts for Linda_53:

(Start: 17 @34839 has 18 MA's),

Gene: Loretta_54 Start: 37031, Stop: 37186, Start Num: 16
Candidate Starts for Loretta_54:
(Start: 16 @37031 has 25 MA's), (21, 37103),

Gene: Makai_54 Start: 37254, Stop: 37394, Start Num: 16
Candidate Starts for Makai_54:
(Start: 16 @37254 has 25 MA's), (21, 37317),

Gene: MediumFry_52 Start: 36539, Stop: 36691, Start Num: 16
Candidate Starts for MediumFry_52:
(Start: 16 @36539 has 25 MA's), (21, 36605),

Gene: Michelle_53 Start: 34841, Stop: 34984, Start Num: 17
Candidate Starts for Michelle_53:
(Start: 17 @34841 has 18 MA's),

Gene: MrAaronian_53 Start: 34841, Stop: 34984, Start Num: 17
Candidate Starts for MrAaronian_53:
(Start: 17 @34841 has 18 MA's),

Gene: Nightmare_55 Start: 38169, Stop: 38321, Start Num: 16
Candidate Starts for Nightmare_55:
(Start: 16 @38169 has 25 MA's), (Start: 19 @38178 has 1 MA's),

Gene: Niktson_53 Start: 37611, Stop: 37763, Start Num: 16
Candidate Starts for Niktson_53:
(Start: 16 @37611 has 25 MA's), (Start: 19 @37620 has 1 MA's),

Gene: Nivinsha_55 Start: 37106, Stop: 37267, Start Num: 16
Candidate Starts for Nivinsha_55:
(Start: 16 @37106 has 25 MA's), (Start: 19 @37115 has 1 MA's), (22, 37238),

Gene: Onestar_52 Start: 34607, Stop: 34750, Start Num: 17
Candidate Starts for Onestar_52:
(5, 34496), (Start: 17 @34607 has 18 MA's),

Gene: Powelldog_58 Start: 36041, Stop: 36205, Start Num: 14
Candidate Starts for Powelldog_58:
(3, 35942), (6, 35963), (8, 35990), (12, 36020), (Start: 14 @36041 has 1 MA's), (15, 36056),

Gene: ProfFrink_53 Start: 34842, Stop: 34985, Start Num: 17
Candidate Starts for ProfFrink_53:
(Start: 17 @34842 has 18 MA's),

Gene: Raunak_53 Start: 34539, Stop: 34682, Start Num: 17
Candidate Starts for Raunak_53:
(Start: 17 @34539 has 18 MA's),

Gene: RustyBoy_54 Start: 34630, Stop: 34794, Start Num: 17
Candidate Starts for RustyBoy_54:
(4, 34519), (10, 34564), (13, 34597), (Start: 17 @34630 has 18 MA's),

Gene: Salk_53 Start: 34839, Stop: 34982, Start Num: 17
Candidate Starts for Salk_53:
(Start: 17 @34839 has 18 MA's),

Gene: ScienceWizSam_54 Start: 37214, Stop: 37375, Start Num: 16
Candidate Starts for ScienceWizSam_54:
(Start: 16 @37214 has 25 MA's), (Start: 19 @37223 has 1 MA's),

Gene: Shepard_56 Start: 36997, Stop: 37137, Start Num: 16
Candidate Starts for Shepard_56:
(Start: 16 @36997 has 25 MA's), (21, 37060),

Gene: Shiba_52 Start: 34539, Stop: 34682, Start Num: 17
Candidate Starts for Shiba_52:
(Start: 17 @34539 has 18 MA's),

Gene: Sloopyjoe_53 Start: 34843, Stop: 34986, Start Num: 17
Candidate Starts for Sloopyjoe_53:
(Start: 17 @34843 has 18 MA's),

Gene: Spain_55 Start: 34841, Stop: 34984, Start Num: 17
Candidate Starts for Spain_55:
(Start: 17 @34841 has 18 MA's),

Gene: Sporto_54 Start: 36328, Stop: 36486, Start Num: 17
Candidate Starts for Sporto_54:
(1, 36160), (4, 36217), (10, 36262), (13, 36295), (Start: 17 @36328 has 18 MA's),

Gene: Sprinkle_52 Start: 35366, Stop: 35515, Start Num: 17
Candidate Starts for Sprinkle_52:
(4, 35255), (10, 35300), (13, 35333), (Start: 17 @35366 has 18 MA's),

Gene: StarLord_53 Start: 34842, Stop: 34985, Start Num: 17
Candidate Starts for StarLord_53:
(Start: 17 @34842 has 18 MA's),

Gene: Stayer_53 Start: 34839, Stop: 34982, Start Num: 17
Candidate Starts for Stayer_53:
(Start: 17 @34839 has 18 MA's),

Gene: Sunny4976_55 Start: 37435, Stop: 37575, Start Num: 20
Candidate Starts for Sunny4976_55:
(2, 37282), (7, 37351), (8, 37354), (20, 37435),

Gene: Synepsis_52 Start: 37282, Stop: 37434, Start Num: 16
Candidate Starts for Synepsis_52:
(Start: 16 @37282 has 25 MA's), (Start: 19 @37291 has 1 MA's),

Gene: Tatanka_50 Start: 37414, Stop: 37566, Start Num: 16
Candidate Starts for Tatanka_50:
(11, 37372), (Start: 16 @37414 has 25 MA's),

Gene: Tenno_54 Start: 37945, Stop: 38097, Start Num: 16
Candidate Starts for Tenno_54:
(Start: 16 @37945 has 25 MA's), (Start: 19 @37954 has 1 MA's),

Gene: Truckee_52 Start: 37044, Stop: 37184, Start Num: 16
Candidate Starts for Truckee_52:
(Start: 16 @37044 has 25 MA's), (21, 37107),

Gene: Trustiboi_53 Start: 37483, Stop: 37635, Start Num: 16
Candidate Starts for Trustiboi_53:
(Start: 16 @37483 has 25 MA's), (Start: 19 @37492 has 1 MA's),

Gene: Westerlin_52 Start: 38496, Stop: 38648, Start Num: 16
Candidate Starts for Westerlin_52:
(Start: 16 @38496 has 25 MA's), (Start: 19 @38505 has 1 MA's),

Gene: Zippen_57 Start: 37860, Stop: 38009, Start Num: 18
Candidate Starts for Zippen_57:
(Start: 16 @37857 has 25 MA's), (Start: 18 @37860 has 2 MA's), (21, 37923),