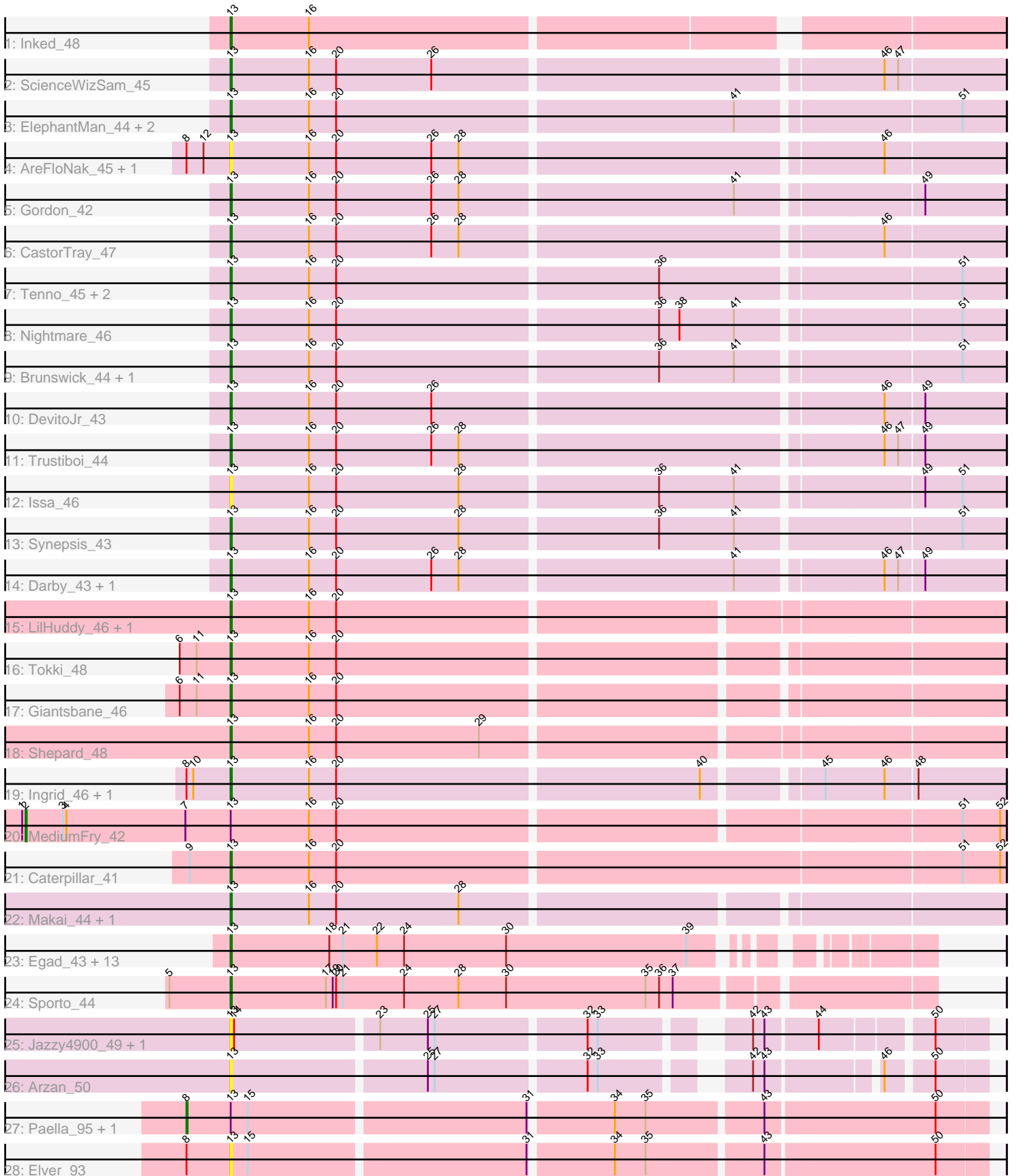


Pham 157913



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 157913 Report

This analysis was run 04/13/24 on database version 558.

Pham number 157913 has 53 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Inked_48
- Track 2 : ScienceWizSam_45
- Track 3 : ElephantMan_44, Tatanka_43, Niktson_44
- Track 4 : AreFloNak_45, Nivinsha_45
- Track 5 : Gordon_42
- Track 6 : CastorTray_47
- Track 7 : Tenno_45, CapnMurica_42, MiniBagel_42
- Track 8 : Nightmare_46
- Track 9 : Brunswick_44, Teacup_45
- Track 10 : DevitoJr_43
- Track 11 : Trustiboi_44
- Track 12 : Issa_46
- Track 13 : Synopsis_43
- Track 14 : Darby_43, Breylor17_45
- Track 15 : LilHuddy_46, Phaby_45
- Track 16 : Tokki_48
- Track 17 : Giantsbane_46
- Track 18 : Shepard_48
- Track 19 : Ingrid_46, Loretta_46
- Track 20 : MediumFry_42
- Track 21 : Caterpillar_41
- Track 22 : Makai_44, Truckee_42
- Track 23 : Egad_43, Sloopyjoe_43, Linda_43, ProfFrink_47, Raunak_46, StarLord_43, Shiba_42, Michelle_43, Stayer_43, MrAaronian_43, BronxBay_43, DoctorPepper_45, Djungelskog_43, Salk_43
- Track 24 : Sporto_44
- Track 25 : Jazzy4900_49, Sunny4976_48
- Track 26 : Arzan_50
- Track 27 : Paella_95, Qui_95
- Track 28 : Elver_93

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 37 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AreFloNak_45, Arzan_50, Breylor17_45, BronxBay_43, Brunswick_44, CapnMurica_42, CastorTray_47, Caterpillar_41, Darby_43, DevitoJr_43, Djungelskog_43, DoctorPepper_45, Egad_43, ElephantMan_44, Elver_93, Giantsbane_46, Gordon_42, Ingrid_46, Inked_48, Issa_46, Jazzy4900_49, LilHuddy_46, Linda_43, Loretta_46, Makai_44, Michelle_43, MiniBagel_42, MrAaronian_43, Nightmare_46, Niktson_44, Nivinsha_45, Phaby_45, ProfFrink_47, Raunak_46, Salk_43, ScienceWizSam_45, Shepard_48, Shiba_42, Sloopyjoe_43, Sporto_44, StarLord_43, Stayer_43, Sunny4976_48, Synepsis_43, Tatanka_43, Teacup_45, Tenno_45, Tokki_48, Truckee_42, Trustiboi_44,

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

- MediumFry_42, Paella_95, Qui_95,

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

-

Summary by start number:

Start 2:

- Found in 1 of 53 (1.9%) 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: MediumFry_42 (AU4),

Start 8:

- Found in 7 of 53 (13.2%) of genes in pham
- Manual Annotations of this start: 2 of 40
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Paella_95 (FK), Qui_95 (FK),

Start 13:

- Found in 53 of 53 (100.0%) of genes in pham
- Manual Annotations of this start: 37 of 40
- Called 94.3% of time when present
- Phage (with cluster) where this start called: AreFloNak_45 (AU1), Arzan_50 (FI), Breylor17_45 (AU1), BronxBay_43 (AW), Brunswick_44 (AU1), CapnMurica_42 (AU1), CastorTray_47 (AU1), Caterpillar_41 (AU4), Darby_43 (AU1), DevitoJr_43 (AU1), Djungelskog_43 (AW), DoctorPepper_45 (AW), Egad_43 (AW), ElephantMan_44 (AU1), Elver_93 (FK), Giantsbane_46 (AU2), Gordon_42 (AU1), Ingrid_46 (AU3), Inked_48 (AU), Issa_46 (AU1), Jazzy4900_49 (FI), LilHuddy_46 (AU2), Linda_43 (AW), Loretta_46 (AU3), Makai_44 (AU5), Michelle_43 (AW), MiniBagel_42 (AU1), MrAaronian_43 (AW), Nightmare_46 (AU1), Niktson_44 (AU1), Nivinsha_45 (AU1), Phaby_45 (AU2), ProfFrink_47 (AW), Raunak_46 (AW), Salk_43 (AW), ScienceWizSam_45 (AU1), Shepard_48 (AU2), Shiba_42 (AW), Sloopyjoe_43 (AW), Sporto_44 (AW), StarLord_43 (AW), Stayer_43 (AW), Sunny4976_48 (FI), Synepsis_43 (AU1), Tatanka_43 (AU1), Teacup_45 (AU1), Tenno_45 (AU1), Tokki_48 (AU2), Truckee_42 (AU5), Trustiboi_44 (AU1),

Summary by clusters:

There are 9 clusters represented in this pham: AU5, AU1, AU3, AU2, AU, AU4, AW, FI, FK,

Info for manual annotations of cluster AU:

- Start number 13 was manually annotated 1 time for cluster AU.

Info for manual annotations of cluster AU1:

- Start number 13 was manually annotated 15 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 13 was manually annotated 4 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 13 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 2 was manually annotated 1 time for cluster AU4.
- Start number 13 was manually annotated 1 time for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 13 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AW:

- Start number 13 was manually annotated 12 times for cluster AW.

Info for manual annotations of cluster FK:

- Start number 8 was manually annotated 2 times for cluster FK.

Gene Information:

Gene: AreFloNak_45 Start: 33292, Stop: 33951, Start Num: 13

Candidate Starts for AreFloNak_45:

(Start: 8 @33253 has 2 MA's), (12, 33268), (Start: 13 @33292 has 37 MA's), (16, 33361), (20, 33385), (26, 33469), (28, 33493), (46, 33847),

Gene: Arzan_50 Start: 33168, Stop: 33752, Start Num: 13

Candidate Starts for Arzan_50:

(Start: 13 @33168 has 37 MA's), (25, 33333), (27, 33339), (32, 33465), (33, 33474), (42, 33576), (43, 33585), (46, 33672), (50, 33708),

Gene: Breylor17_45 Start: 34090, Stop: 34749, Start Num: 13

Candidate Starts for Breylor17_45:

(Start: 13 @34090 has 37 MA's), (16, 34159), (20, 34183), (26, 34267), (28, 34291), (41, 34525), (46, 34645), (47, 34657), (49, 34678),

Gene: BronxBay_43 Start: 30995, Stop: 31555, Start Num: 13

Candidate Starts for BronxBay_43:

(Start: 13 @30995 has 37 MA's), (18, 31082), (21, 31094), (22, 31124), (24, 31148), (30, 31238), (39, 31397),

Gene: Brunswick_44 Start: 33172, Stop: 33831, Start Num: 13

Candidate Starts for Brunswick_44:

(Start: 13 @33172 has 37 MA's), (16, 33241), (20, 33265), (36, 33541), (41, 33607), (51, 33793),

Gene: CapnMurica_42 Start: 34070, Stop: 34729, Start Num: 13

Candidate Starts for CapnMurica_42:

(Start: 13 @34070 has 37 MA's), (16, 34139), (20, 34163), (36, 34439), (51, 34691),

Gene: CastorTray_47 Start: 33900, Stop: 34559, Start Num: 13

Candidate Starts for CastorTray_47:

(Start: 13 @33900 has 37 MA's), (16, 33969), (20, 33993), (26, 34077), (28, 34101), (46, 34455),

Gene: Caterpillar_41 Start: 32360, Stop: 33028, Start Num: 13

Candidate Starts for Caterpillar_41:

(9, 32324), (Start: 13 @32360 has 37 MA's), (16, 32429), (20, 32453), (51, 32990), (52, 33023),

Gene: Darby_43 Start: 33072, Stop: 33731, Start Num: 13

Candidate Starts for Darby_43:

(Start: 13 @33072 has 37 MA's), (16, 33141), (20, 33165), (26, 33249), (28, 33273), (41, 33507), (46, 33627), (47, 33639), (49, 33660),

Gene: DevitoJr_43 Start: 33260, Stop: 33919, Start Num: 13

Candidate Starts for DevitoJr_43:

(Start: 13 @33260 has 37 MA's), (16, 33329), (20, 33353), (26, 33437), (46, 33815), (49, 33848),

Gene: Djungelskog_43 Start: 30994, Stop: 31554, Start Num: 13

Candidate Starts for Djungelskog_43:

(Start: 13 @30994 has 37 MA's), (18, 31081), (21, 31093), (22, 31123), (24, 31147), (30, 31237), (39, 31396),

Gene: DoctorPepper_45 Start: 30699, Stop: 31259, Start Num: 13

Candidate Starts for DoctorPepper_45:

(Start: 13 @30699 has 37 MA's), (18, 30786), (21, 30798), (22, 30828), (24, 30852), (30, 30942), (39, 31101),

Gene: Egad_43 Start: 30996, Stop: 31556, Start Num: 13

Candidate Starts for Egad_43:

(Start: 13 @30996 has 37 MA's), (18, 31083), (21, 31095), (22, 31125), (24, 31149), (30, 31239), (39, 31398),

Gene: ElephantMan_44 Start: 33745, Stop: 34404, Start Num: 13

Candidate Starts for ElephantMan_44:

(Start: 13 @33745 has 37 MA's), (16, 33814), (20, 33838), (41, 34180), (51, 34366),

Gene: Elver_93 Start: 52898, Stop: 53530, Start Num: 13

Candidate Starts for Elver_93:

(Start: 8 @52859 has 2 MA's), (Start: 13 @52898 has 37 MA's), (15, 52913), (31, 53150), (34, 53219), (35, 53246), (43, 53342), (50, 53486),

Gene: Giantsbane_46 Start: 32465, Stop: 33115, Start Num: 13

Candidate Starts for Giantsbane_46:

(6, 32420), (11, 32435), (Start: 13 @32465 has 37 MA's), (16, 32534), (20, 32558),

Gene: Gordon_42 Start: 33925, Stop: 34584, Start Num: 13

Candidate Starts for Gordon_42:

(Start: 13 @33925 has 37 MA's), (16, 33994), (20, 34018), (26, 34102), (28, 34126), (41, 34360), (49, 34513),

Gene: Ingrid_46 Start: 33203, Stop: 33853, Start Num: 13

Candidate Starts for Ingrid_46:

(Start: 8 @33164 has 2 MA's), (10, 33170), (Start: 13 @33203 has 37 MA's), (16, 33272), (20, 33296), (40, 33608), (45, 33698), (46, 33749), (48, 33776),

Gene: Inked_48 Start: 34345, Stop: 34989, Start Num: 13

Candidate Starts for Inked_48:

(Start: 13 @34345 has 37 MA's), (16, 34414),

Gene: Issa_46 Start: 33364, Stop: 34023, Start Num: 13

Candidate Starts for Issa_46:

(Start: 13 @33364 has 37 MA's), (16, 33433), (20, 33457), (28, 33565), (36, 33733), (41, 33799), (49, 33952), (51, 33985),

Gene: Jazzy4900_49 Start: 33968, Stop: 34558, Start Num: 13

Candidate Starts for Jazzy4900_49:

(Start: 13 @33968 has 37 MA's), (14, 33971), (23, 34091), (25, 34133), (27, 34139), (32, 34265), (33, 34274), (42, 34376), (43, 34385), (44, 34427), (50, 34514),

Gene: LilHuddy_46 Start: 33411, Stop: 34067, Start Num: 13

Candidate Starts for LilHuddy_46:

(Start: 13 @33411 has 37 MA's), (16, 33480), (20, 33504),

Gene: Linda_43 Start: 30992, Stop: 31552, Start Num: 13

Candidate Starts for Linda_43:

(Start: 13 @30992 has 37 MA's), (18, 31079), (21, 31091), (22, 31121), (24, 31145), (30, 31235), (39, 31394),

Gene: Loretta_46 Start: 33203, Stop: 33853, Start Num: 13

Candidate Starts for Loretta_46:

(Start: 8 @33164 has 2 MA's), (10, 33170), (Start: 13 @33203 has 37 MA's), (16, 33272), (20, 33296), (40, 33608), (45, 33698), (46, 33749), (48, 33776),

Gene: Makai_44 Start: 33397, Stop: 34047, Start Num: 13

Candidate Starts for Makai_44:

(Start: 13 @33397 has 37 MA's), (16, 33466), (20, 33490), (28, 33598),

Gene: MediumFry_42 Start: 32492, Stop: 33331, Start Num: 2

Candidate Starts for MediumFry_42:

(1, 32489), (Start: 2 @32492 has 1 MA's), (3, 32525), (4, 32528), (7, 32633), (Start: 13 @32672 has 37 MA's), (16, 32741), (20, 32765), (51, 33293), (52, 33326),

Gene: Michelle_43 Start: 30994, Stop: 31554, Start Num: 13

Candidate Starts for Michelle_43:

(Start: 13 @30994 has 37 MA's), (18, 31081), (21, 31093), (22, 31123), (24, 31147), (30, 31237), (39, 31396),

Gene: MiniBagel_42 Start: 34052, Stop: 34711, Start Num: 13

Candidate Starts for MiniBagel_42:

(Start: 13 @34052 has 37 MA's), (16, 34121), (20, 34145), (36, 34421), (51, 34673),

Gene: MrAaronian_43 Start: 30994, Stop: 31554, Start Num: 13

Candidate Starts for MrAaronian_43:

(Start: 13 @30994 has 37 MA's), (18, 31081), (21, 31093), (22, 31123), (24, 31147), (30, 31237), (39, 31396),

Gene: Nightmare_46 Start: 34312, Stop: 34971, Start Num: 13

Candidate Starts for Nightmare_46:

(Start: 13 @34312 has 37 MA's), (16, 34381), (20, 34405), (36, 34681), (38, 34699), (41, 34747), (51, 34933),

Gene: Niktson_44 Start: 33745, Stop: 34404, Start Num: 13

Candidate Starts for Niktson_44:

(Start: 13 @33745 has 37 MA's), (16, 33814), (20, 33838), (41, 34180), (51, 34366),

Gene: Nivinsha_45 Start: 33292, Stop: 33951, Start Num: 13

Candidate Starts for Nivinsha_45:

(Start: 8 @33253 has 2 MA's), (12, 33268), (Start: 13 @33292 has 37 MA's), (16, 33361), (20, 33385), (26, 33469), (28, 33493), (46, 33847),

Gene: Paella_95 Start: 53449, Stop: 54120, Start Num: 8

Candidate Starts for Paella_95:

(Start: 8 @53449 has 2 MA's), (Start: 13 @53488 has 37 MA's), (15, 53503), (31, 53740), (34, 53809), (35, 53836), (43, 53932), (50, 54076),

Gene: Phaby_45 Start: 33645, Stop: 34295, Start Num: 13

Candidate Starts for Phaby_45:

(Start: 13 @33645 has 37 MA's), (16, 33714), (20, 33738),

Gene: ProfFrink_47 Start: 30995, Stop: 31555, Start Num: 13

Candidate Starts for ProfFrink_47:

(Start: 13 @30995 has 37 MA's), (18, 31082), (21, 31094), (22, 31124), (24, 31148), (30, 31238), (39, 31397),

Gene: Qui_95 Start: 53449, Stop: 54120, Start Num: 8

Candidate Starts for Qui_95:

(Start: 8 @53449 has 2 MA's), (Start: 13 @53488 has 37 MA's), (15, 53503), (31, 53740), (34, 53809), (35, 53836), (43, 53932), (50, 54076),

Gene: Raunak_46 Start: 30692, Stop: 31252, Start Num: 13

Candidate Starts for Raunak_46:

(Start: 13 @30692 has 37 MA's), (18, 30779), (21, 30791), (22, 30821), (24, 30845), (30, 30935), (39, 31094),

Gene: Salk_43 Start: 30992, Stop: 31552, Start Num: 13

Candidate Starts for Salk_43:

(Start: 13 @30992 has 37 MA's), (18, 31079), (21, 31091), (22, 31121), (24, 31145), (30, 31235), (39, 31394),

Gene: ScienceWizSam_45 Start: 33402, Stop: 34061, Start Num: 13

Candidate Starts for ScienceWizSam_45:

(Start: 13 @33402 has 37 MA's), (16, 33471), (20, 33495), (26, 33579), (46, 33957), (47, 33969),

Gene: Shepard_48 Start: 33483, Stop: 34139, Start Num: 13

Candidate Starts for Shepard_48:

(Start: 13 @33483 has 37 MA's), (16, 33552), (20, 33576), (29, 33702),

Gene: Shiba_42 Start: 30692, Stop: 31252, Start Num: 13

Candidate Starts for Shiba_42:

(Start: 13 @30692 has 37 MA's), (18, 30779), (21, 30791), (22, 30821), (24, 30845), (30, 30935), (39, 31094),

Gene: Sloopyjoe_43 Start: 30996, Stop: 31556, Start Num: 13

Candidate Starts for Sloopyjoe_43:

(Start: 13 @30996 has 37 MA's), (18, 31083), (21, 31095), (22, 31125), (24, 31149), (30, 31239), (39, 31398),

Gene: Sporto_44 Start: 32458, Stop: 33057, Start Num: 13

Candidate Starts for Sporto_44:

(5, 32404), (Start: 13 @32458 has 37 MA's), (17, 32542), (19, 32548), (20, 32551), (21, 32557), (24, 32611), (28, 32659), (30, 32701), (35, 32824), (36, 32836), (37, 32848),

Gene: StarLord_43 Start: 30995, Stop: 31555, Start Num: 13

Candidate Starts for StarLord_43:

(Start: 13 @30995 has 37 MA's), (18, 31082), (21, 31094), (22, 31124), (24, 31148), (30, 31238), (39, 31397),

Gene: Stayer_43 Start: 30992, Stop: 31552, Start Num: 13

Candidate Starts for Stayer_43:

(Start: 13 @30992 has 37 MA's), (18, 31079), (21, 31091), (22, 31121), (24, 31145), (30, 31235), (39, 31394),

Gene: Sunny4976_48 Start: 33968, Stop: 34558, Start Num: 13

Candidate Starts for Sunny4976_48:

(Start: 13 @33968 has 37 MA's), (14, 33971), (23, 34091), (25, 34133), (27, 34139), (32, 34265), (33, 34274), (42, 34376), (43, 34385), (44, 34427), (50, 34514),

Gene: Synopsis_43 Start: 33411, Stop: 34073, Start Num: 13

Candidate Starts for Synopsis_43:

(Start: 13 @33411 has 37 MA's), (16, 33480), (20, 33504), (28, 33612), (36, 33780), (41, 33846), (51, 34035),

Gene: Tatanka_43 Start: 33581, Stop: 34243, Start Num: 13

Candidate Starts for Tatanka_43:

(Start: 13 @33581 has 37 MA's), (16, 33650), (20, 33674), (41, 34016), (51, 34205),

Gene: Teacup_45 Start: 33771, Stop: 34433, Start Num: 13

Candidate Starts for Teacup_45:

(Start: 13 @33771 has 37 MA's), (16, 33840), (20, 33864), (36, 34140), (41, 34206), (51, 34395),

Gene: Tenno_45 Start: 34060, Stop: 34719, Start Num: 13

Candidate Starts for Tenno_45:

(Start: 13 @34060 has 37 MA's), (16, 34129), (20, 34153), (36, 34429), (51, 34681),

Gene: Tokki_48 Start: 33269, Stop: 33919, Start Num: 13

Candidate Starts for Tokki_48:

(6, 33224), (11, 33239), (Start: 13 @33269 has 37 MA's), (16, 33338), (20, 33362),

Gene: Truckee_42 Start: 33185, Stop: 33835, Start Num: 13

Candidate Starts for Truckee_42:

(Start: 13 @33185 has 37 MA's), (16, 33254), (20, 33278), (28, 33386),

Gene: Trustiboi_44 Start: 33620, Stop: 34279, Start Num: 13

Candidate Starts for Trustiboi_44:

(Start: 13 @33620 has 37 MA's), (16, 33689), (20, 33713), (26, 33797), (28, 33821), (46, 34175), (47, 34187), (49, 34208),