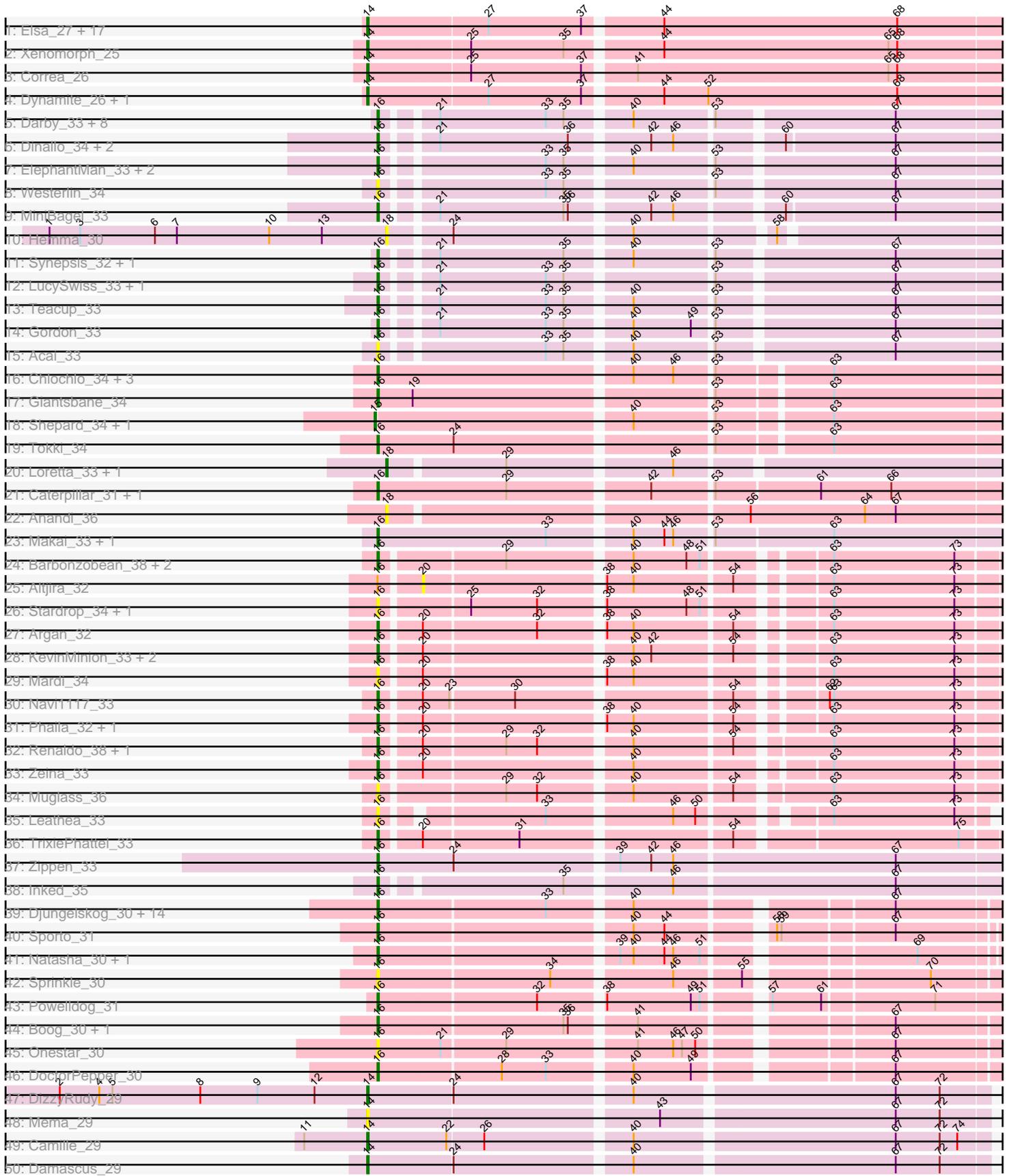# Pham 290972

Pham 290972

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 290972 Report

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

Pham number 290972 has 123 members, 33 are drafts.

Phages represented in each track:
• Track 1 : Elsa_27, Benllo_25, Mooshroom_26, Cheesy_27, Circum_27, KeaneyLin_25, GoCrazy_25, BenitoAntonio_27, Kardesai_25, Bowling_27, Hankly_25, Arcadia_27, YoshiYama_26, Tribby_27, Nason_27, Mudcat_26, JEGGS_26, Heisenberger_26
• Track 2 : Xenomorph_25
• Track 3 : Correa_26
• Track 4 : Dynamite_26, NapoleonB_26
• Track 5 : Darby_33, Nivinsha_33, AreFloNak_33, CastorTray_35, ScienceWizSam_35, Issa_33, Trustiboi_34, DevitoJr_33, Tatanka_33
• Track 6 : Dinallo_34, CapnMurica_33, Tenno_34
• Track 7 : ElephantMan_33, Niktson_33, Brunswick_33
• Track 8 : Westerlin_34
• Track 9 : MiniBagel_33
• Track 10 : Hemma_30
• Track 11 : Synepsis_32, Breylor17_34
• Track 12 : LucySwiss_33, Nightmare_34
• Track 13 : Teacup_33
• Track 14 : Gordon_33
• Track 15 : Acai_33
• Track 16 : Chlochlo_34, Phaby_34, Tipton_34, Bouchard_34
• Track 17 : Giantsbane_34
• Track 18 : Shepard_34, LilHuddy_34
• Track 19 : Tokki_34
• Track 20 : Loretta_33, Ingrid_33
• Track 21 : Caterpillar_31, MediumFry_31
• Track 22 : Anandi_36
• Track 23 : Makai_33, Truckee_32
• Track 24 : Barbonzobean_38, Lewando_36, Kinny_35
• Track 25 : Altjira_32
• Track 26 : Stardrop_34, PoeMe_34
• Track 27 : Argan_32
• Track 28 : KevinMinion_33, Tenney120_33, Uzumaki_33
• Track 29 : Mardi_34
• Track 30 : Navi1117_33
• Track 31 : Phaila_32, GantcherGoblin_32
• Track 32 : Renaldo_38, Biscute_34
• Track 33 : Zeina_33

• Track 34 : Muglass_36
• Track 35 : Leathea_33
• Track 36 : TrixiePhattel_33
• Track 37 : Zippen_33
• Track 38 : Inked_35
• Track 39 : Djungelskog_30, Sloopyjoe_30, Spain_30, ProfFrink_30, StarLord_30, Shiba_30, Salk_30, Stayer_30, BronxBay_30, Egad_30, Raunak_31, Michelle_30, MrAaronian_30, Jeremy4pt0_30, Linda_30
• Track 40 : Sporto_31
• Track 41 : Natasha_30, RustyBoy_30
• Track 42 : Sprinkle_30
• Track 43 : Powelldog_31
• Track 44 : Boog_30, HerbBucket_29
• Track 45 : Onestar_30
• Track 46 : DoctorPepper_30
• Track 47 : DizzyRudy_29
• Track 48 : Mema_29
• Track 49 : Camille_29
• Track 50 : Damascus_29
• Track 51 : Jazzy4900_31, Sunny4976_30
• Track 52 : Arzan_29
• Track 53 : GermyBearimy_32
• Track 54 : Kureo_48, Marianna39_48, JeNeSaisPas_46, Paella_47, Qui_47, Elver_47
• Track 55 : Gandionco_48

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 62 of the 90 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acai_33, AreFloNak_33, Argan_32, Barbonzobean_38, Biscute_34, Boog_30, Bouchard_34, Breylor17_34, BronxBay_30, Brunswick_33, CapnMurica_33, CastorTray_35, Caterpillar_31, Chlochlo_34, Darby_33, DevitoJr_33, Dinallo_34, Djungelskog_30, DoctorPepper_30, Egad_30, ElephantMan_33, Elver_47, Gandionco_48, GantcherGoblin_32, Giantsbane_34, Gordon_33, HerbBucket_29, Inked_35, Issa_33, JeNeSaisPas_46, Jeremy4pt0_30, KevinMinion_33, Kinny_35, Kureo_48, Leathea_33, Lewando_36, Linda_30, LucySwiss_33, Makai_33, Mardi_34, Marianna39_48, MediumFry_31, Michelle_30, MiniBagel_33, MrAaronian_30, Muglass_36, Natasha_30, Navi1117_33, Nightmare_34, Niktson_33, Nivinsha_33, Onestar_30, Paella_47, Phaby_34, Phaila_32, PoeMe_34, Powelldog_31, ProfFrink_30, Qui_47, Raunak_31, Renaldo_38, RustyBoy_30, Salk_30, ScienceWizSam_35, Shiba_30, Sloopyjoe_30, Spain_30, Sporto_31, Sprinkle_30, StarLord_30, Stardrop_34, Stayer_30, Synepsis_32, Tatanka_33, Teacup_33, Tenney120_33, Tenno_34, Tipton_34, Tokki_34, TrixiePhattel_33, Truckee_32, Trustiboi_34, Uzumaki_33, Westerlin_34, Zeina_33, Zippen_33,

Genes that have the "Most Annotated" start but do not call it:
• Altjira_32,

Genes that do not have the "Most Annotated" start:
• Anandi_36, Arcadia_27, Arzan_29, BenitoAntonio_27, Benllo_25, Bowling_27, Camille_29, Cheesy_27, Circum_27, Correa_26, Damascus_29, DizzyRudy_29, Dynamite_26, Elsa_27, GermyBearimy_32, GoCrazy_25, Hankly_25, Heisenberger_26, Hemma_30, Ingrid_33, JEGGS_26, Jazzy4900_31, Kardesai_25, KeaneyLin_25, LilHuddy_34, Loretta_33, Mema_29, Mooshroom_26, Mudcat_26, NapoleonB_26, Nason_27, Shepard_34, Sunny4976_30, Tribby_27, Xenomorph_25, YoshiYama_26,

Summary by start number:

Start 14:
• Found in 28 of 123 (22.8%) of genes in pham
• Manual Annotations of this start: 24 of 90
• Called 92.9% of time when present
• Phage (with cluster) where this start called: Arcadia_27 (AM), BenitoAntonio_27 (AM), Benllo_25 (AM), Bowling_27 (AM), Camille_29 (EL), Cheesy_27 (AM), Circum_27 (AM), Correa_26 (AM), Damascus_29 (EL), DizzyRudy_29 (EL), Dynamite_26 (AM), Elsa_27 (AM), GoCrazy_25 (AM), Hankly_25 (AM), Heisenberger_26 (AM), JEGGS_26 (AM), Kardesai_25 (AM), KeaneyLin_25 (AM), Mema_29 (EL), Mooshroom_26 (AM), Mudcat_26 (AM), NapoleonB_26 (AM), Nason_27 (AM), Tribby_27 (AM), Xenomorph_25 (AM), YoshiYama_26 (AM),

Start 15:
• Found in 2 of 123 (1.6%) of genes in pham
• Manual Annotations of this start: 2 of 90
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LilHuddy_34 (AU2), Shepard_34 (AU2),

Start 16:
• Found in 87 of 123 (70.7%) of genes in pham
• Manual Annotations of this start: 62 of 90
• Called 98.9% of time when present
• Phage (with cluster) where this start called: Acai_33 (AU1), AreFloNak_33 (AU1), Argan_32 (AU6), Barbonzobean_38 (AU6), Biscute_34 (AU6), Boog_30 (AW), Bouchard_34 (AU2), Breylor17_34 (AU1), BronxBay_30 (AW), Brunswick_33 (AU1), CapnMurica_33 (AU1), CastorTray_35 (AU1), Caterpillar_31 (AU4), Chlochlo_34 (AU2), Darby_33 (AU1), DevitoJr_33 (AU1), Dinallo_34 (AU1), Djungelskog_30 (AW), DoctorPepper_30 (AW), Egad_30 (AW), ElephantMan_33 (AU1), Elver_47 (FK), Gandionco_48 (FK), GantcherGoblin_32 (AU6), Giantsbane_34 (AU2), Gordon_33 (AU1), HerbBucket_29 (AW), Inked_35 (AU7), Issa_33 (AU1), JeNeSaisPas_46 (FK), Jeremy4pt0_30 (AW), KevinMinion_33 (AU6), Kinny_35 (AU6), Kureo_48 (FK), Leathea_33 (AU6), Lewando_36 (AU6), Linda_30 (AW), LucySwiss_33 (AU1), Makai_33 (AU5), Mardi_34 (AU6), Marianna39_48 (FK), MediumFry_31 (AU4), Michelle_30 (AW), MiniBagel_33 (AU1), MrAaronian_30 (AW), Muglass_36 (AU6), Natasha_30 (AW), Navi1117_33 (AU6), Nightmare_34 (AU1), Niktson_33 (AU1), Nivinsha_33 (AU1), Onestar_30 (AW), Paella_47 (FK), Phaby_34 (AU2), Phaila_32 (AU6), PoeMe_34 (AU6), Powelldog_31 (AW), ProfFrink_30 (AW), Qui_47 (FK), Raunak_31 (AW), Renaldo_38 (AU6), RustyBoy_30 (AW), Salk_30 (AW), ScienceWizSam_35 (AU1), Shiba_30 (AW), Sloopyjoe_30 (AW), Spain_30 (AW), Sporto_31 (AW), Sprinkle_30 (AW), StarLord_30 (AW), Stardrop_34 (AU6), Stayer_30 (AW), Synepsis_32 (AU1), Tatanka_33 (AU1), Teacup_33 (AU1),

Tenney120_33 (AU6), Tenno_34 (AU1), Tipton_34 (AU2), Tokki_34 (AU2), TrixiePhattel_33 (AU6), Truckee_32 (AU5), Trustiboi_34 (AU1), Uzumaki_33 (AU6), Westerlin_34 (AU1), Zeina_33 (AU6), Zippen_33 (AU7),

Start 17:
• Found in 4 of 123 (3.3%) 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_29 (FI), GermyBearimy_32 (FI), Jazzy4900_31 (FI), Sunny4976_30 (FI),

Start 18:
• Found in 4 of 123 (3.3%) of genes in pham
• Manual Annotations of this start: 2 of 90
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anandi_36 (AU4), Hemma_30 (AU1), Ingrid_33 (AU3), Loretta_33 (AU3),

Start 20:
• Found in 13 of 123 (10.6%) of genes in pham
• No Manual Annotations of this start.
• Called 7.7% of time when present
• Phage (with cluster) where this start called: Altjira_32 (AU6),

Summary by clusters:

There are 12 clusters represented in this pham: EL, AU7, AM, AU1, AU3, AU2, AU5, AU4, AW, AU6, FI, FK,

Info for manual annotations of cluster AM:
•Start number 14 was manually annotated 21 times for cluster AM.

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

Info for manual annotations of cluster AU2:
•Start number 15 was manually annotated 2 times for cluster AU2.
•Start number 16 was manually annotated 5 times for cluster AU2.

Info for manual annotations of cluster AU3:
•Start number 18 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:
•Start number 16 was manually annotated 2 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 AU6:
•Start number 16 was manually annotated 11 times for cluster AU6.

Info for manual annotations of cluster AU7:
•Start number 16 was manually annotated 2 times for cluster AU7.

Info for manual annotations of cluster AW:
•Start number 16 was manually annotated 18 times for cluster AW.

Info for manual annotations of cluster EL:
•Start number 14 was manually annotated 3 times for cluster EL.

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

Gene Information:

Gene: Acai_33 Start: 28488, Stop: 28880, Start Num: 16
Candidate Starts for Acai_33:
(Start: 16 @28488 has 62 MA's), (33, 28590), (35, 28602), (40, 28641), (53, 28692), (67, 28806),

Gene: Altjira_32 Start: 27735, Stop: 28097, Start Num: 20
Candidate Starts for Altjira_32:
(Start: 16 @27711 has 62 MA's), (20, 27735), (38, 27849), (40, 27867), (54, 27930), (63, 27981), (73, 28062),

Gene: Anandi_36 Start: 29026, Stop: 29427, Start Num: 18
Candidate Starts for Anandi_36:
(Start: 18 @29026 has 2 MA's), (56, 29254), (64, 29332), (67, 29353),

Gene: Arcadia_27 Start: 24836, Stop: 25252, Start Num: 14
Candidate Starts for Arcadia_27:
(Start: 14 @24836 has 24 MA's), (27, 24914), (37, 24977), (44, 25025), (68, 25181),

Gene: AreFloNak_33 Start: 28429, Stop: 28821, Start Num: 16
Candidate Starts for AreFloNak_33:
(Start: 16 @28429 has 62 MA's), (21, 28459), (33, 28531), (35, 28543), (40, 28582), (53, 28633), (67, 28747),

Gene: Argan_32 Start: 26978, Stop: 27364, Start Num: 16
Candidate Starts for Argan_32:
(Start: 16 @26978 has 62 MA's), (20, 27002), (32, 27077), (38, 27116), (40, 27134), (54, 27197), (63, 27248), (73, 27329),

Gene: Arzan_29 Start: 25708, Stop: 26094, Start Num: 17
Candidate Starts for Arzan_29:
(Start: 14 @25699 has 24 MA's), (17, 25708), (24, 25747), (29, 25783), (46, 25888), (71, 26047),

Gene: Barbonzobean_38 Start: 28548, Stop: 28934, Start Num: 16
Candidate Starts for Barbonzobean_38:
(Start: 16 @28548 has 62 MA's), (29, 28626), (40, 28704), (48, 28740), (51, 28749), (63, 28818), (73, 28899),

Gene: BenitoAntonio_27 Start: 24452, Stop: 24868, Start Num: 14
Candidate Starts for BenitoAntonio_27:

(Start: 14 @24452 has 24 MA's), (27, 24530), (37, 24593), (44, 24641), (68, 24797),

Gene: Benllo_25 Start: 24736, Stop: 25152, Start Num: 14
Candidate Starts for Benllo_25:
(Start: 14 @24736 has 24 MA's), (27, 24814), (37, 24877), (44, 24925), (68, 25081),

Gene: Biscute_34 Start: 28599, Stop: 28991, Start Num: 16
Candidate Starts for Biscute_34:
(Start: 16 @28599 has 62 MA's), (20, 28623), (29, 28677), (32, 28698), (40, 28755), (54, 28818), (63, 28875), (73, 28956),

Gene: Boog_30 Start: 25583, Stop: 25972, Start Num: 16
Candidate Starts for Boog_30:
(Start: 16 @25583 has 62 MA's), (35, 25706), (36, 25709), (41, 25748), (67, 25901),

Gene: Bouchard_34 Start: 28632, Stop: 29036, Start Num: 16
Candidate Starts for Bouchard_34:
(Start: 16 @28632 has 62 MA's), (40, 28797), (46, 28824), (53, 28848), (63, 28920),

Gene: Bowling_27 Start: 24550, Stop: 24966, Start Num: 14
Candidate Starts for Bowling_27:
(Start: 14 @24550 has 24 MA's), (27, 24628), (37, 24691), (44, 24739), (68, 24895),

Gene: Breylor17_34 Start: 29035, Stop: 29427, Start Num: 16
Candidate Starts for Breylor17_34:
(Start: 16 @29035 has 62 MA's), (21, 29065), (35, 29149), (40, 29188), (53, 29239), (67, 29353),

Gene: BronxBay_30 Start: 25582, Stop: 25971, Start Num: 16
Candidate Starts for BronxBay_30:
(Start: 16 @25582 has 62 MA's), (33, 25693), (40, 25744), (67, 25900),

Gene: Brunswick_33 Start: 28500, Stop: 28892, Start Num: 16
Candidate Starts for Brunswick_33:
(Start: 16 @28500 has 62 MA's), (33, 28602), (35, 28614), (40, 28653), (53, 28704), (67, 28818),

Gene: Camille_29 Start: 23493, Stop: 23894, Start Num: 14
Candidate Starts for Camille_29:
(11, 23451), (Start: 14 @23493 has 24 MA's), (22, 23547), (26, 23571), (40, 23664), (67, 23832), (72, 23862), (74, 23874),

Gene: CapnMurica_33 Start: 29586, Stop: 29975, Start Num: 16
Candidate Starts for CapnMurica_33:
(Start: 16 @29586 has 62 MA's), (21, 29616), (36, 29703), (42, 29751), (46, 29766), (60, 29829), (67, 29901),

Gene: CastorTray_35 Start: 28893, Stop: 29285, Start Num: 16
Candidate Starts for CastorTray_35:
(Start: 16 @28893 has 62 MA's), (21, 28923), (33, 28995), (35, 29007), (40, 29046), (53, 29097), (67, 29211),

Gene: Caterpillar_31 Start: 27666, Stop: 28076, Start Num: 16
Candidate Starts for Caterpillar_31:
(Start: 16 @27666 has 62 MA's), (29, 27753), (42, 27843), (53, 27882), (61, 27951), (66, 27999),

Gene: Cheesy_27 Start: 24551, Stop: 24967, Start Num: 14
Candidate Starts for Cheesy_27:
(Start: 14 @24551 has 24 MA's), (27, 24629), (37, 24692), (44, 24740), (68, 24896),

Gene: Chlochlo_34 Start: 28668, Stop: 29072, Start Num: 16
Candidate Starts for Chlochlo_34:
(Start: 16 @28668 has 62 MA's), (40, 28833), (46, 28860), (53, 28884), (63, 28956),

Gene: Circum_27 Start: 24558, Stop: 24974, Start Num: 14
Candidate Starts for Circum_27:
(Start: 14 @24558 has 24 MA's), (27, 24636), (37, 24699), (44, 24747), (68, 24903),

Gene: Correa_26 Start: 24066, Stop: 24482, Start Num: 14
Candidate Starts for Correa_26:
(Start: 14 @24066 has 24 MA's), (25, 24132), (37, 24207), (41, 24237), (65, 24405), (68, 24411),

Gene: Damascus_29 Start: 24399, Stop: 24800, Start Num: 14
Candidate Starts for Damascus_29:
(Start: 14 @24399 has 24 MA's), (24, 24456), (40, 24570), (67, 24738), (72, 24768),

Gene: Darby_33 Start: 28339, Stop: 28731, Start Num: 16
Candidate Starts for Darby_33:
(Start: 16 @28339 has 62 MA's), (21, 28369), (33, 28441), (35, 28453), (40, 28492), (53, 28543), (67, 28657),

Gene: DevitoJr_33 Start: 28510, Stop: 28902, Start Num: 16
Candidate Starts for DevitoJr_33:
(Start: 16 @28510 has 62 MA's), (21, 28540), (33, 28612), (35, 28624), (40, 28663), (53, 28714), (67, 28828),

Gene: Dinallo_34 Start: 29574, Stop: 29963, Start Num: 16
Candidate Starts for Dinallo_34:
(Start: 16 @29574 has 62 MA's), (21, 29604), (36, 29691), (42, 29739), (46, 29754), (60, 29817), (67, 29889),

Gene: DizzyRudy_29 Start: 24315, Stop: 24716, Start Num: 14
Candidate Starts for DizzyRudy_29:
(2, 24105), (4, 24132), (5, 24141), (8, 24201), (9, 24240), (12, 24279), (Start: 14 @24315 has 24 MA's), (24, 24372), (40, 24486), (67, 24654), (72, 24684),

Gene: Djungelskog_30 Start: 25582, Stop: 25971, Start Num: 16
Candidate Starts for Djungelskog_30:
(Start: 16 @25582 has 62 MA's), (33, 25693), (40, 25744), (67, 25900),

Gene: DoctorPepper_30 Start: 25582, Stop: 25971, Start Num: 16
Candidate Starts for DoctorPepper_30:
(Start: 16 @25582 has 62 MA's), (28, 25663), (33, 25693), (40, 25744), (49, 25783), (67, 25900),

Gene: Dynamite_26 Start: 24359, Stop: 24775, Start Num: 14
Candidate Starts for Dynamite_26:
(Start: 14 @24359 has 24 MA's), (27, 24437), (37, 24500), (44, 24548), (52, 24578), (68, 24704),

Gene: Egad_30 Start: 25583, Stop: 25972, Start Num: 16
Candidate Starts for Egad_30:
(Start: 16 @25583 has 62 MA's), (33, 25694), (40, 25745), (67, 25901),

Gene: ElephantMan_33 Start: 29040, Stop: 29432, Start Num: 16
Candidate Starts for ElephantMan_33:
(Start: 16 @29040 has 62 MA's), (33, 29142), (35, 29154), (40, 29193), (53, 29244), (67, 29358),

Gene: Elsa_27 Start: 24836, Stop: 25252, Start Num: 14
Candidate Starts for Elsa_27:
(Start: 14 @24836 has 24 MA's), (27, 24914), (37, 24977), (44, 25025), (68, 25181),

Gene: Elver_47 Start: 37243, Stop: 37635, Start Num: 16
Candidate Starts for Elver_47:
(Start: 16 @37243 has 62 MA's), (30, 37321), (45, 37426), (63, 37513), (67, 37555),

Gene: Gandionco_48 Start: 37766, Stop: 38158, Start Num: 16
Candidate Starts for Gandionco_48:
(Start: 16 @37766 has 62 MA's), (30, 37844), (45, 37949), (63, 38036), (67, 38078),

Gene: GantcherGoblin_32 Start: 27017, Stop: 27403, Start Num: 16
Candidate Starts for GantcherGoblin_32:
(Start: 16 @27017 has 62 MA's), (20, 27041), (38, 27155), (40, 27173), (54, 27236), (63, 27287), (73, 27368),

Gene: GermyBearimy_32 Start: 26139, Stop: 26525, Start Num: 17
Candidate Starts for GermyBearimy_32:
(Start: 14 @26130 has 24 MA's), (17, 26139), (24, 26178), (29, 26214), (46, 26319), (71, 26478),

Gene: Giantsbane_34 Start: 27528, Stop: 27932, Start Num: 16
Candidate Starts for Giantsbane_34:
(Start: 16 @27528 has 62 MA's), (19, 27552), (53, 27744), (63, 27816),

Gene: GoCrazy_25 Start: 24359, Stop: 24775, Start Num: 14
Candidate Starts for GoCrazy_25:
(Start: 14 @24359 has 24 MA's), (27, 24437), (37, 24500), (44, 24548), (68, 24704),

Gene: Gordon_33 Start: 29615, Stop: 30010, Start Num: 16
Candidate Starts for Gordon_33:
(Start: 16 @29615 has 62 MA's), (21, 29645), (33, 29717), (35, 29729), (40, 29768), (49, 29807), (53, 29819), (67, 29933),

Gene: Hankly_25 Start: 23581, Stop: 23997, Start Num: 14
Candidate Starts for Hankly_25:
(Start: 14 @23581 has 24 MA's), (27, 23659), (37, 23722), (44, 23770), (68, 23926),

Gene: Heisenberger_26 Start: 24229, Stop: 24645, Start Num: 14
Candidate Starts for Heisenberger_26:
(Start: 14 @24229 has 24 MA's), (27, 24307), (37, 24370), (44, 24418), (68, 24574),

Gene: Hemma_30 Start: 24951, Stop: 25334, Start Num: 18
Candidate Starts for Hemma_30:

(1, 24723), (3, 24744), (6, 24795), (7, 24810), (10, 24873), (13, 24909), (Start: 18 @24951 has 2 MA's), (24, 24990), (40, 25104), (58, 25188),

Gene: HerbBucket_29 Start: 25583, Stop: 25972, Start Num: 16
Candidate Starts for HerbBucket_29:
(Start: 16 @25583 has 62 MA's), (35, 25706), (36, 25709), (41, 25748), (67, 25901),

Gene: Ingrid_33 Start: 28232, Stop: 28624, Start Num: 18
Candidate Starts for Ingrid_33:
(Start: 18 @28232 has 2 MA's), (29, 28307), (46, 28412),

Gene: Inked_35 Start: 29245, Stop: 29646, Start Num: 16
Candidate Starts for Inked_35:
(Start: 16 @29245 has 62 MA's), (35, 29359), (46, 29425), (67, 29572),

Gene: Issa_33 Start: 28319, Stop: 28711, Start Num: 16
Candidate Starts for Issa_33:
(Start: 16 @28319 has 62 MA's), (21, 28349), (33, 28421), (35, 28433), (40, 28472), (53, 28523), (67, 28637),

Gene: JEGGS_26 Start: 24283, Stop: 24699, Start Num: 14
Candidate Starts for JEGGS_26:
(Start: 14 @24283 has 24 MA's), (27, 24361), (37, 24424), (44, 24472), (68, 24628),

Gene: Jazzy4900_31 Start: 26962, Stop: 27348, Start Num: 17
Candidate Starts for Jazzy4900_31:
(17, 26962), (26, 27022), (57, 27193), (71, 27301),

Gene: JeNeSaisPas_46 Start: 37778, Stop: 38170, Start Num: 16
Candidate Starts for JeNeSaisPas_46:
(Start: 16 @37778 has 62 MA's), (30, 37856), (45, 37961), (63, 38048), (67, 38090),

Gene: Jeremy4pt0_30 Start: 25582, Stop: 25971, Start Num: 16
Candidate Starts for Jeremy4pt0_30:
(Start: 16 @25582 has 62 MA's), (33, 25693), (40, 25744), (67, 25900),

Gene: Kardesai_25 Start: 23962, Stop: 24378, Start Num: 14
Candidate Starts for Kardesai_25:
(Start: 14 @23962 has 24 MA's), (27, 24040), (37, 24103), (44, 24151), (68, 24307),

Gene: KeaneyLin_25 Start: 24359, Stop: 24775, Start Num: 14
Candidate Starts for KeaneyLin_25:
(Start: 14 @24359 has 24 MA's), (27, 24437), (37, 24500), (44, 24548), (68, 24704),

Gene: KevinMinion_33 Start: 28111, Stop: 28497, Start Num: 16
Candidate Starts for KevinMinion_33:
(Start: 16 @28111 has 62 MA's), (20, 28135), (40, 28267), (42, 28279), (54, 28330), (63, 28381), (73, 28462),

Gene: Kinny_35 Start: 28866, Stop: 29252, Start Num: 16
Candidate Starts for Kinny_35:
(Start: 16 @28866 has 62 MA's), (29, 28944), (40, 29022), (48, 29058), (51, 29067), (63, 29136), (73, 29217),

Gene: Kureo_48 Start: 36588, Stop: 36980, Start Num: 16
Candidate Starts for Kureo_48:
(Start: 16 @36588 has 62 MA's), (30, 36666), (45, 36771), (63, 36858), (67, 36900),

Gene: Leathea_33 Start: 26912, Stop: 27271, Start Num: 16
Candidate Starts for Leathea_33:
(Start: 16 @26912 has 62 MA's), (33, 27008), (46, 27086), (50, 27101), (63, 27170), (73, 27251),

Gene: Lewando_36 Start: 28935, Stop: 29321, Start Num: 16
Candidate Starts for Lewando_36:
(Start: 16 @28935 has 62 MA's), (29, 29013), (40, 29091), (48, 29127), (51, 29136), (63, 29205), (73, 29286),

Gene: LilHuddy_34 Start: 28688, Stop: 29092, Start Num: 15
Candidate Starts for LilHuddy_34:
(Start: 15 @28688 has 2 MA's), (40, 28853), (53, 28904), (63, 28976),

Gene: Linda_30 Start: 25582, Stop: 25971, Start Num: 16
Candidate Starts for Linda_30:
(Start: 16 @25582 has 62 MA's), (33, 25693), (40, 25744), (67, 25900),

Gene: Loretta_33 Start: 28232, Stop: 28624, Start Num: 18
Candidate Starts for Loretta_33:
(Start: 18 @28232 has 2 MA's), (29, 28307), (46, 28412),

Gene: LucySwiss_33 Start: 28343, Stop: 28735, Start Num: 16
Candidate Starts for LucySwiss_33:
(Start: 16 @28343 has 62 MA's), (21, 28373), (33, 28445), (35, 28457), (53, 28547), (67, 28661),

Gene: Makai_33 Start: 28464, Stop: 28874, Start Num: 16
Candidate Starts for Makai_33:
(Start: 16 @28464 has 62 MA's), (33, 28578), (40, 28629), (44, 28650), (46, 28656), (53, 28680), (63, 28758),

Gene: Mardi_34 Start: 27545, Stop: 27931, Start Num: 16
Candidate Starts for Mardi_34:
(Start: 16 @27545 has 62 MA's), (20, 27569), (38, 27683), (40, 27701), (63, 27815), (73, 27896),

Gene: Marianna39_48 Start: 37765, Stop: 38157, Start Num: 16
Candidate Starts for Marianna39_48:
(Start: 16 @37765 has 62 MA's), (30, 37843), (45, 37948), (63, 38035), (67, 38077),

Gene: MediumFry_31 Start: 27668, Stop: 28078, Start Num: 16
Candidate Starts for MediumFry_31:
(Start: 16 @27668 has 62 MA's), (29, 27755), (42, 27845), (53, 27884), (61, 27953), (66, 28001),

Gene: Mema_29 Start: 26609, Stop: 27010, Start Num: 14
Candidate Starts for Mema_29:
(Start: 14 @26609 has 24 MA's), (43, 26798), (67, 26948), (72, 26978),

Gene: Michelle_30 Start: 25582, Stop: 25971, Start Num: 16
Candidate Starts for Michelle_30:

(Start: 16 @25582 has 62 MA's), (33, 25693), (40, 25744), (67, 25900),

Gene: MiniBagel_33 Start: 29565, Stop: 29954, Start Num: 16
Candidate Starts for MiniBagel_33:
(Start: 16 @29565 has 62 MA's), (21, 29595), (35, 29679), (36, 29682), (42, 29730), (46, 29745), (60, 29808), (67, 29880),

Gene: Mooshroom_26 Start: 23962, Stop: 24378, Start Num: 14
Candidate Starts for Mooshroom_26:
(Start: 14 @23962 has 24 MA's), (27, 24040), (37, 24103), (44, 24151), (68, 24307),

Gene: MrAaronian_30 Start: 25582, Stop: 25971, Start Num: 16
Candidate Starts for MrAaronian_30:
(Start: 16 @25582 has 62 MA's), (33, 25693), (40, 25744), (67, 25900),

Gene: Mudcat_26 Start: 26260, Stop: 26676, Start Num: 14
Candidate Starts for Mudcat_26:
(Start: 14 @26260 has 24 MA's), (27, 26338), (37, 26401), (44, 26449), (68, 26605),

Gene: Muglass_36 Start: 28503, Stop: 28895, Start Num: 16
Candidate Starts for Muglass_36:
(Start: 16 @28503 has 62 MA's), (29, 28581), (32, 28602), (40, 28659), (54, 28722), (63, 28779), (73, 28860),

Gene: NapoleonB_26 Start: 24359, Stop: 24775, Start Num: 14
Candidate Starts for NapoleonB_26:
(Start: 14 @24359 has 24 MA's), (27, 24437), (37, 24500), (44, 24548), (52, 24578), (68, 24704),

Gene: Nason_27 Start: 24836, Stop: 25252, Start Num: 14
Candidate Starts for Nason_27:
(Start: 14 @24836 has 24 MA's), (27, 24914), (37, 24977), (44, 25025), (68, 25181),

Gene: Natasha_30 Start: 25024, Stop: 25410, Start Num: 16
Candidate Starts for Natasha_30:
(Start: 16 @25024 has 62 MA's), (39, 25177), (40, 25186), (44, 25207), (46, 25213), (51, 25231), (69, 25357),

Gene: Navi1117_33 Start: 27244, Stop: 27630, Start Num: 16
Candidate Starts for Navi1117_33:
(Start: 16 @27244 has 62 MA's), (20, 27268), (23, 27286), (30, 27328), (54, 27463), (62, 27511), (63, 27514), (73, 27595),

Gene: Nightmare_34 Start: 28878, Stop: 29270, Start Num: 16
Candidate Starts for Nightmare_34:
(Start: 16 @28878 has 62 MA's), (21, 28908), (33, 28980), (35, 28992), (53, 29082), (67, 29196),

Gene: Niktson_33 Start: 29040, Stop: 29432, Start Num: 16
Candidate Starts for Niktson_33:
(Start: 16 @29040 has 62 MA's), (33, 29142), (35, 29154), (40, 29193), (53, 29244), (67, 29358),

Gene: Nivinsha_33 Start: 28429, Stop: 28821, Start Num: 16
Candidate Starts for Nivinsha_33:

(Start: 16 @28429 has 62 MA's), (21, 28459), (33, 28531), (35, 28543), (40, 28582), (53, 28633), (67, 28747),

Gene: Onestar_30 Start: 25365, Stop: 25754, Start Num: 16
Candidate Starts for Onestar_30:
(Start: 16 @25365 has 62 MA's), (21, 25407), (29, 25449), (41, 25530), (46, 25554), (47, 25560), (50, 25569), (67, 25683),

Gene: Paella_47 Start: 37245, Stop: 37637, Start Num: 16
Candidate Starts for Paella_47:
(Start: 16 @37245 has 62 MA's), (30, 37323), (45, 37428), (63, 37515), (67, 37557),

Gene: Phaby_34 Start: 28643, Stop: 29047, Start Num: 16
Candidate Starts for Phaby_34:
(Start: 16 @28643 has 62 MA's), (40, 28808), (46, 28835), (53, 28859), (63, 28931),

Gene: Phaila_32 Start: 26595, Stop: 26981, Start Num: 16
Candidate Starts for Phaila_32:
(Start: 16 @26595 has 62 MA's), (20, 26619), (38, 26733), (40, 26751), (54, 26814), (63, 26865), (73, 26946),

Gene: PoeMe_34 Start: 27873, Stop: 28259, Start Num: 16
Candidate Starts for PoeMe_34:
(Start: 16 @27873 has 62 MA's), (25, 27927), (32, 27972), (38, 28011), (48, 28065), (51, 28074), (63, 28143), (73, 28224),

Gene: Powelldog_31 Start: 25284, Stop: 25676, Start Num: 16
Candidate Starts for Powelldog_31:
(Start: 16 @25284 has 62 MA's), (32, 25389), (38, 25428), (49, 25485), (51, 25491), (57, 25524), (61, 25557), (71, 25629),

Gene: ProfFrink_30 Start: 25582, Stop: 25971, Start Num: 16
Candidate Starts for ProfFrink_30:
(Start: 16 @25582 has 62 MA's), (33, 25693), (40, 25744), (67, 25900),

Gene: Qui_47 Start: 37245, Stop: 37637, Start Num: 16
Candidate Starts for Qui_47:
(Start: 16 @37245 has 62 MA's), (30, 37323), (45, 37428), (63, 37515), (67, 37557),

Gene: Raunak_31 Start: 25582, Stop: 25971, Start Num: 16
Candidate Starts for Raunak_31:
(Start: 16 @25582 has 62 MA's), (33, 25693), (40, 25744), (67, 25900),

Gene: Renaldo_38 Start: 28944, Stop: 29336, Start Num: 16
Candidate Starts for Renaldo_38:
(Start: 16 @28944 has 62 MA's), (20, 28968), (29, 29022), (32, 29043), (40, 29100), (54, 29163), (63, 29220), (73, 29301),

Gene: RustyBoy_30 Start: 25006, Stop: 25392, Start Num: 16
Candidate Starts for RustyBoy_30:
(Start: 16 @25006 has 62 MA's), (39, 25159), (40, 25168), (44, 25189), (46, 25195), (51, 25213), (69, 25339),

Gene: Salk_30 Start: 25582, Stop: 25971, Start Num: 16
Candidate Starts for Salk_30:
(Start: 16 @25582 has 62 MA's), (33, 25693), (40, 25744), (67, 25900),

Gene: ScienceWizSam_35 Start: 28830, Stop: 29222, Start Num: 16
Candidate Starts for ScienceWizSam_35:
(Start: 16 @28830 has 62 MA's), (21, 28860), (33, 28932), (35, 28944), (40, 28983), (53, 29034), (67, 29148),

Gene: Shepard_34 Start: 28685, Stop: 29089, Start Num: 15
Candidate Starts for Shepard_34:
(Start: 15 @28685 has 2 MA's), (40, 28850), (53, 28901), (63, 28973),

Gene: Shiba_30 Start: 25582, Stop: 25971, Start Num: 16
Candidate Starts for Shiba_30:
(Start: 16 @25582 has 62 MA's), (33, 25693), (40, 25744), (67, 25900),

Gene: Sloopyjoe_30 Start: 25583, Stop: 25972, Start Num: 16
Candidate Starts for Sloopyjoe_30:
(Start: 16 @25583 has 62 MA's), (33, 25694), (40, 25745), (67, 25901),

Gene: Spain_30 Start: 25582, Stop: 25971, Start Num: 16
Candidate Starts for Spain_30:
(Start: 16 @25582 has 62 MA's), (33, 25693), (40, 25744), (67, 25900),

Gene: Sporto_31 Start: 26752, Stop: 27138, Start Num: 16
Candidate Starts for Sporto_31:
(Start: 16 @26752 has 62 MA's), (40, 26914), (44, 26935), (58, 26995), (59, 26998), (67, 27070),

Gene: Sprinkle_30 Start: 25726, Stop: 26115, Start Num: 16
Candidate Starts for Sprinkle_30:
(Start: 16 @25726 has 62 MA's), (34, 25840), (46, 25915), (55, 25957), (70, 26068),

Gene: StarLord_30 Start: 25583, Stop: 25972, Start Num: 16
Candidate Starts for StarLord_30:
(Start: 16 @25583 has 62 MA's), (33, 25694), (40, 25745), (67, 25901),

Gene: Stardrop_34 Start: 27569, Stop: 27955, Start Num: 16
Candidate Starts for Stardrop_34:
(Start: 16 @27569 has 62 MA's), (25, 27623), (32, 27668), (38, 27707), (48, 27761), (51, 27770), (63, 27839), (73, 27920),

Gene: Stayer_30 Start: 25582, Stop: 25971, Start Num: 16
Candidate Starts for Stayer_30:
(Start: 16 @25582 has 62 MA's), (33, 25693), (40, 25744), (67, 25900),

Gene: Sunny4976_30 Start: 26962, Stop: 27348, Start Num: 17
Candidate Starts for Sunny4976_30:
(17, 26962), (26, 27022), (57, 27193), (71, 27301),

Gene: Synepsis_32 Start: 28493, Stop: 28885, Start Num: 16
Candidate Starts for Synepsis_32:
(Start: 16 @28493 has 62 MA's), (21, 28523), (35, 28607), (40, 28646), (53, 28697), (67, 28811),

Gene: Tatanka_33 Start: 28977, Stop: 29369, Start Num: 16
Candidate Starts for Tatanka_33:
(Start: 16 @28977 has 62 MA's), (21, 29007), (33, 29079), (35, 29091), (40, 29130), (53, 29181), (67, 29295),

Gene: Teacup_33 Start: 28347, Stop: 28739, Start Num: 16
Candidate Starts for Teacup_33:
(Start: 16 @28347 has 62 MA's), (21, 28377), (33, 28449), (35, 28461), (40, 28500), (53, 28551), (67, 28665),

Gene: Tenney120_33 Start: 27306, Stop: 27692, Start Num: 16
Candidate Starts for Tenney120_33:
(Start: 16 @27306 has 62 MA's), (20, 27330), (40, 27462), (42, 27474), (54, 27525), (63, 27576), (73, 27657),

Gene: Tenno_34 Start: 29574, Stop: 29963, Start Num: 16
Candidate Starts for Tenno_34:
(Start: 16 @29574 has 62 MA's), (21, 29604), (36, 29691), (42, 29739), (46, 29754), (60, 29817), (67, 29889),

Gene: Tipton_34 Start: 28704, Stop: 29108, Start Num: 16
Candidate Starts for Tipton_34:
(Start: 16 @28704 has 62 MA's), (40, 28869), (46, 28896), (53, 28920), (63, 28992),

Gene: Tokki_34 Start: 28659, Stop: 29063, Start Num: 16
Candidate Starts for Tokki_34:
(Start: 16 @28659 has 62 MA's), (24, 28710), (53, 28875), (63, 28947),

Gene: Tribby_27 Start: 24551, Stop: 24967, Start Num: 14
Candidate Starts for Tribby_27:
(Start: 14 @24551 has 24 MA's), (27, 24629), (37, 24692), (44, 24740), (68, 24896),

Gene: TrixiePhattel_33 Start: 27141, Stop: 27533, Start Num: 16
Candidate Starts for TrixiePhattel_33:
(Start: 16 @27141 has 62 MA's), (20, 27165), (31, 27228), (54, 27360), (75, 27501),

Gene: Truckee_32 Start: 28509, Stop: 28919, Start Num: 16
Candidate Starts for Truckee_32:
(Start: 16 @28509 has 62 MA's), (33, 28623), (40, 28674), (44, 28695), (46, 28701), (53, 28725), (63, 28803),

Gene: Trustiboi_34 Start: 29046, Stop: 29438, Start Num: 16
Candidate Starts for Trustiboi_34:
(Start: 16 @29046 has 62 MA's), (21, 29076), (33, 29148), (35, 29160), (40, 29199), (53, 29250), (67, 29364),

Gene: Uzumaki_33 Start: 27836, Stop: 28222, Start Num: 16
Candidate Starts for Uzumaki_33:
(Start: 16 @27836 has 62 MA's), (20, 27860), (40, 27992), (42, 28004), (54, 28055), (63, 28106), (73, 28187),

Gene: Westerlin_34 Start: 30157, Stop: 30549, Start Num: 16

Candidate Starts for Westerlin_34:
(Start: 16 @30157 has 62 MA's), (33, 30259), (35, 30271), (53, 30361), (67, 30475),

Gene: Xenomorph_25 Start: 24569, Stop: 24985, Start Num: 14
Candidate Starts for Xenomorph_25:
(Start: 14 @24569 has 24 MA's), (25, 24635), (35, 24698), (44, 24758), (65, 24908), (68, 24914),

Gene: YoshiYama_26 Start: 24600, Stop: 25016, Start Num: 14
Candidate Starts for YoshiYama_26:
(Start: 14 @24600 has 24 MA's), (27, 24678), (37, 24741), (44, 24789), (68, 24945),

Gene: Zeina_33 Start: 27217, Stop: 27603, Start Num: 16
Candidate Starts for Zeina_33:
(Start: 16 @27217 has 62 MA's), (20, 27241), (40, 27373), (63, 27487), (73, 27568),

Gene: Zippen_33 Start: 28824, Stop: 29237, Start Num: 16
Candidate Starts for Zippen_33:
(Start: 16 @28824 has 62 MA's), (24, 28875), (39, 28980), (42, 29001), (46, 29016), (67, 29163),