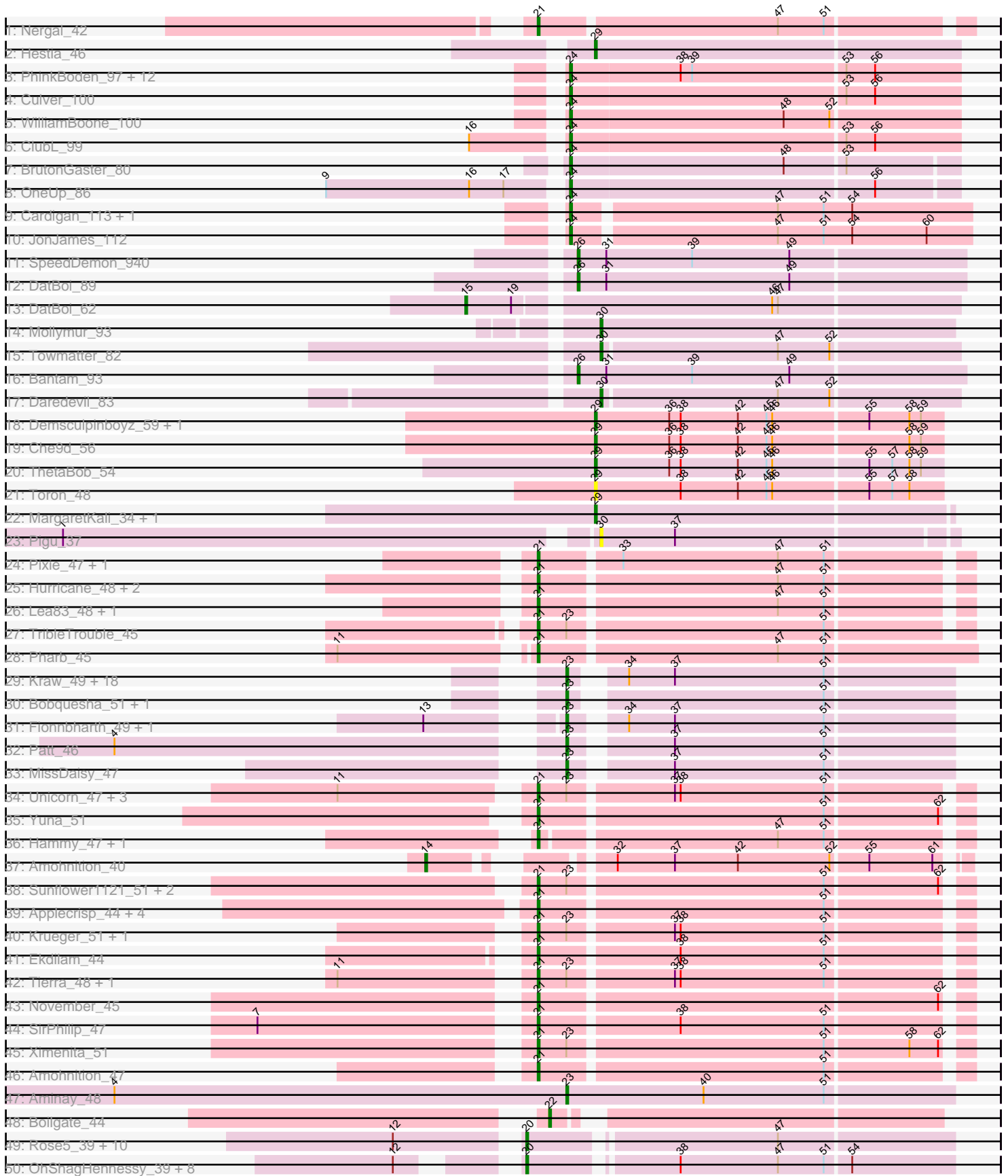
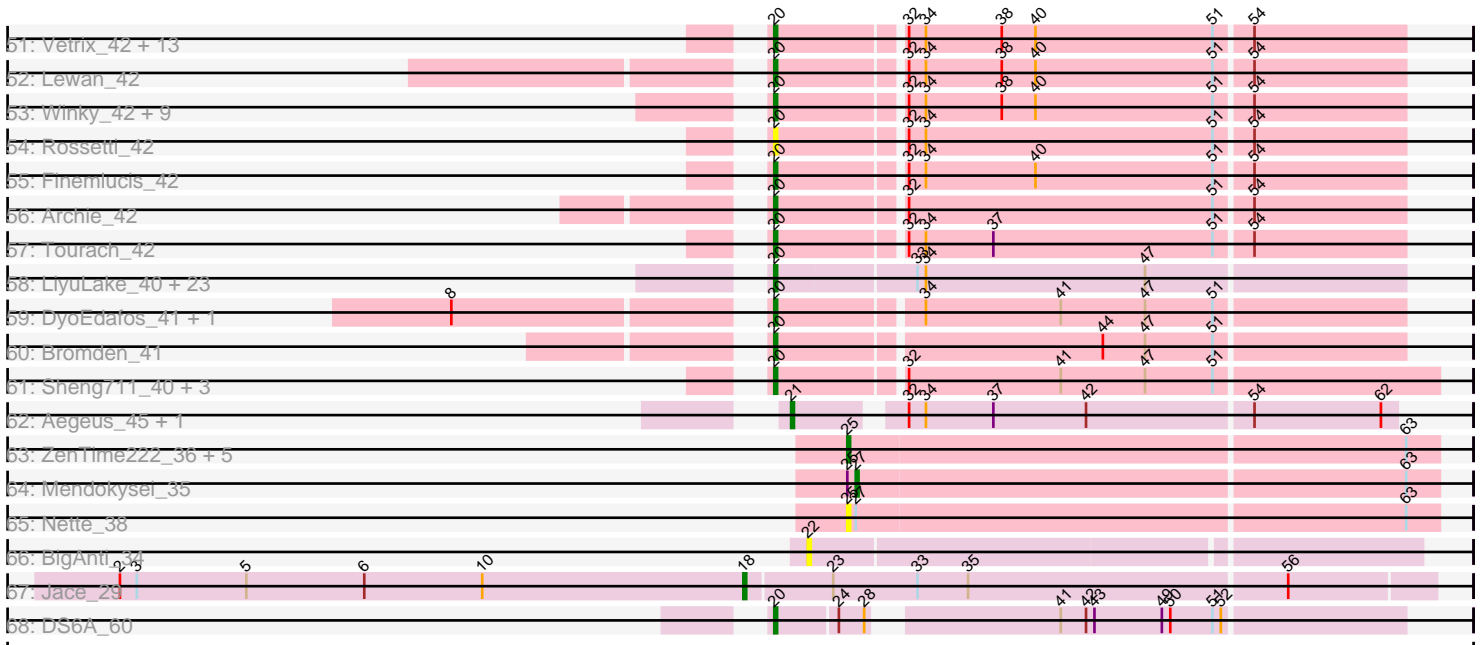


Pham 304734



Pham 304734



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 304734 Report

This analysis was run 06/08/26 on database version 649.

Pham number 304734 has 192 members, 17 are drafts.

Phages represented in each track:

- Track 1 : Nergal_42
- Track 2 : Hestia_46
- Track 3 : PhinkBoden_97, Dusty_96, Cucurbita_99, Toniann_100, Abscondus_97, Smoothie_99, Aphelion_99, Geeche_97, Engineer_99, Lozinak_98, Miskis_92, Bachita_100, Norvs_100
- Track 4 : Culver_100
- Track 5 : WilliamBoone_100
- Track 6 : ClubL_99
- Track 7 : BrutonGaster_80
- Track 8 : OneUp_86
- Track 9 : Cardigan_113, Yvonnetastic_109
- Track 10 : JonJames_112
- Track 11 : SpeedDemon_940
- Track 12 : DatBoi_89
- Track 13 : DatBoi_62
- Track 14 : Mollymur_93
- Track 15 : Towmatter_82
- Track 16 : Bantam_93
- Track 17 : Daredevil_83
- Track 18 : Demsculpinboyz_59, Yoshi_61
- Track 19 : Che9d_56
- Track 20 : ThetaBob_54
- Track 21 : Toron_48
- Track 22 : MargaretKali_34, Kumotta_34
- Track 23 : Pigu_37
- Track 24 : Pixie_47, TBond007_47
- Track 25 : Hurricane_48, Keshu_49, MacnCheese_49
- Track 26 : Lea83_48, ShedlockHolmes_48
- Track 27 : TribbleTrouble_45
- Track 28 : Pharb_45
- Track 29 : Kraw_49, Chancellor_49, Lebo14_48, Qhanda_51, Juliette_51, Slarp_49, Cheetobro_49, DanSyl44_52, YasnayaPolyana_49, OmniCritical_48, Malthus_50, Taquito_49, JF1_49, Y10_48, SamScheppers_47, Ruthiejr_50, Wintermute_49, Y2_48, Mitti_49
- Track 30 : Bobquesha_51, Reptar3000_47
- Track 31 : Fionnbharth_49, Eponine_51
- Track 32 : Patt_46

- Track 33 : MissDaisy_47
- Track 34 : Unicorn_47, PhelpsODU_47, Cain_48, Bryler_48
- Track 35 : Yuna_51
- Track 36 : Hammy_47, DarthP_47
- Track 37 : Amohnition_40
- Track 38 : Sunflower1121_51, Syra333_50, Shadow1_50
- Track 39 : Applecrisp_44, Ellie_43, Lavahound_44, Fefferhead_45, Amgine_45
- Track 40 : Krueger_51, Tigress9_50
- Track 41 : Ekdilam_44
- Track 42 : Tierra_48, Phrank_48
- Track 43 : November_45
- Track 44 : SirPhilip_47
- Track 45 : Ximenita_51
- Track 46 : Amohnition_47
- Track 47 : Aminay_48
- Track 48 : Boilgate_44
- Track 49 : Rose5_39, Tyson_39, Halena_39, MAckerman_40, CicholasNage_40, Calm_40, Wyatt2_40, Zaria_40, Silverleaf_39, AvadaKedavra_40, Acquire49_40
- Track 50 : OhShagHennessy_39, Wamburgxpress_40, LeBron_40, Enceladus_39, JoeDirt_39, Appletree2_39, Poochiewood_39, DirkDirk_39, UPIE_40
- Track 51 : Vatrix_42, Nicholasp3_42, GuuelaD_42, Kahlid_42, Crossroads_42, Loadrie_42, Gabriela_42, Gardann_42, Wilder_42, Rumpelstiltskin_42, Underpass_42, MkaliMitinis3_42, Wigglewiggles_42, Zakai_42
- Track 52 : Lewan_42
- Track 53 : Winky_42, Breezona_42, Itos_41, BobsGarage_42, Netyap_42, BigCheese_42, Faith1_42, DrSeegs_42, Miley16_42, LilDestine_42
- Track 54 : Rossetti_42
- Track 55 : Finemlucis_42
- Track 56 : Archie_42
- Track 57 : Tourach_42
- Track 58 : LiyuLake_40, Lolly9_40, MsGreen_40, Jobypre_40, Jubie_40, Ellson_40, Kingsolomon_40, MiniLon_40, Krypton555_40, Whirlwind_41, Lumos_40, Samty_40, Clautastrophe_40, Bellis_40, Snenia_40, Finnry_40, TriFive_40, MiniMac_40, DuncansLeg_40, KirDoubleO7_38, BourbonZero_39, Red305_40, Nicholas_40, Moostard_40
- Track 59 : DyoEdafos_41, Kropertea_40
- Track 60 : Bromden_41
- Track 61 : Sheng711_40, Douge_39, Chaser_39, ChutneyChips_40
- Track 62 : Aegeus_45, Baudelaire_45
- Track 63 : ZenTime222_36, Whitty_37, Nairb_36, Bernal13_37, Ibrahim_37, RonRayGun_37
- Track 64 : Mendokysei_35
- Track 65 : Nette_38
- Track 66 : BigAnti_34
- Track 67 : Jace_29
- Track 68 : DS6A_60

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

The start number called the most often in the published annotations is 20, it was called in 73 of the 175 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acquire49_40, Appletree2_39, Archie_42, AvadaKedavra_40, Bellis_40, BigCheese_42, BobsGarage_42, BourbonZero_39, Breezona_42, Bromden_41, Calm_40, Chaser_39, ChutneyChips_40, CicholasNage_40, Clautastrophe_40, Crossroads_42, DS6A_60, DirkDirk_39, Douge_39, DrSeegs_42, DuncansLeg_40, DyoEdafos_41, Ellson_40, Enceladus_39, Faith1_42, Finemlucis_42, Finnry_40, Gabriela_42, Gardann_42, GuuelaD_42, Halena_39, Itos_41, Jobypre_40, JoeDirt_39, Jubie_40, Kahlid_42, Kingsolomon_40, KirDoubleO7_38, Kroperteia_40, Krypton555_40, LeBron_40, Lewan_42, LilDestine_42, LiyuLake_40, Loadrie_42, Lolly9_40, Lumos_40, MAckerman_40, Miley16_42, MiniLon_40, MiniMac_40, MkaliMitinis3_42, Moostard_40, MsGreen_40, Netyap_42, Nicholas_40, Nicholasp3_42, OhShagHennessy_39, Poochiewood_39, Red305_40, Rose5_39, Rossetti_42, Rumpelstiltskin_42, Samty_40, Sheng711_40, Silverleaf_39, Snenia_40, Tourach_42, TriFive_40, Tyson_39, UPIE_40, Underpass_42, Vetrix_42, Wamburgrxpress_40, Whirlwind_41, Wigglewiggle_42, Wilder_42, Winky_42, Wyatt2_40, Zakai_42, Zaria_40,

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

-

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

- Abscondus_97, Aegeus_45, Amgine_45, Aminay_48, Amohnition_40, Amohnition_47, Aphelion_99, Applecrisp_44, Bachita_100, Bantam_93, Baudelaire_45, Bernal13_37, BigAnti_34, Bobquesha_51, Boilgate_44, BrutonGaster_80, Bryler_48, Cain_48, Cardigan_113, Chancellor_49, Che9d_56, Cheetobro_49, ClubL_99, Cucurbita_99, Culver_100, DanSyl44_52, Daredevil_83, DarthP_47, DatBoi_62, DatBoi_89, Demsculpinboyz_59, Dusty_96, Ekdilam_44, Ellie_43, Engineer_99, Eponine_51, Fefferhead_45, Fionnbharth_49, Geeche_97, Hammy_47, Hestia_46, Hurricane_48, Ibrahim_37, JF1_49, Jace_29, JonJames_112, Juliette_51, Keshu_49, Kraw_49, Krueger_51, Kumotta_34, Lavahound_44, Lea83_48, Lebo14_48, Lozinak_98, MacnCheese_49, Malthus_50, MargaretKali_34, Mendokyse_35, Miskis_92, MissDaisy_47, Mitti_49, Mollymur_93, Nairb_36, Nergal_42, Nette_38, Norvs_100, November_45, OmniCritical_48, OneUp_86, Patt_46, Pharb_45, PhelpsODU_47, PhinkBoden_97, Phrank_48, Pigu_37, Pixie_47, Qhanda_51, Reptar3000_47, RonRayGun_37, Ruthiejr_50, SamScheppers_47, Shadow1_50, ShedlockHolmes_48, SirPhilip_47, Slarp_49, Smoothie_99, SpeedDemon_940, Sunflower1121_51, Syra333_50, TBond007_47, Taquito_49, ThetaBob_54, Tierra_48, Tigress9_50, Toniann_100, Toron_48, Towmatter_82, TripleTrouble_45, Unicorn_47, Whitty_37, WilliamBoone_100, Wintermute_49, Ximenita_51, Y10_48, Y2_48, YasnayaPolyana_49, Yoshi_61, Yuna_51, Yvonnestic_109, ZenTime222_36,

Summary by start number:

Start 14:

- Found in 1 of 192 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 175
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amohnition_40 (K6),

Start 15:

- Found in 1 of 192 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 175
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DatBoi_62 (DL),

Start 18:

- Found in 1 of 192 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 175
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jace_29 (singleton),

Start 20:

- Found in 81 of 192 (42.2%) of genes in pham
- Manual Annotations of this start: 73 of 175
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acquire49_40 (L1), Appletree2_39 (L1), Archie_42 (L2), AvadaKedavra_40 (L1), Bellis_40 (L3), BigCheese_42 (L2), BobsGarage_42 (L2), BourbonZero_39 (L3), Breezona_42 (L2), Bromden_41 (L4), Calm_40 (L1), Chaser_39 (L4), ChutneyChips_40 (L4), CicholasNage_40 (L1), Clautastrophe_40 (L3), Crossroads_42 (L2), DS6A_60 (singleton), DirkDirk_39 (L1), Douge_39 (L4), DrSeegs_42 (L2), DuncansLeg_40 (L3), DyoEdafos_41 (L4), Ellson_40 (L3), Enceladus_39 (L1), Faith1_42 (L2), Finemlucis_42 (L2), Finnry_40 (L3), Gabriela_42 (L2), Gardann_42 (L2), GuuelaD_42 (L2), Halena_39 (L1), Itos_41 (L2), Jobypre_40 (L3), JoeDirt_39 (L1), Jubie_40 (L3), Kahlid_42 (L2), Kingsolomon_40 (L3), KirDoubleO7_38 (L3), Kropertea_40 (L4), Krypton555_40 (L3), LeBron_40 (L1), Lewan_42 (L2), LilDestine_42 (L2), LiyuLake_40 (L3), Loadrie_42 (L2), Lolly9_40 (L3), Lumos_40 (L3), MAckerman_40 (L1), Miley16_42 (L2), MiniLon_40 (L3), MiniMac_40 (L3), MkaliMitinis3_42 (L2), Moostard_40 (L3), MsGreen_40 (L3), Netyap_42 (L2), Nicholas_40 (L3), Nicholasp3_42 (L2), OhShagHennessy_39 (L1), Poochiewood_39 (L1), Red305_40 (L3), Rose5_39 (L1), Rossetti_42 (L2), Rumpelstiltskin_42 (L2), Samty_40 (L3), Sheng711_40 (L4), Silverleaf_39 (L1), Snenia_40 (L3), Tourach_42 (L2), TriFive_40 (L3), Tyson_39 (L1), UPIE_40 (L1), Underpass_42 (L2), Vetrix_42 (L2), Wamburggrxpress_40 (L1), Whirlwind_41 (L3), Wigglewiggle_42 (L2), Wilder_42 (L2), Winky_42 (L2), Wyatt2_40 (L1), Zakai_42 (L2), Zaria_40 (L1),

Start 21:

- Found in 36 of 192 (18.8%) of genes in pham
- Manual Annotations of this start: 36 of 175
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aegeus_45 (L5), Amgine_45 (K6), Amohntion_47 (K6), Applecrisp_44 (K6), Baudelaire_45 (L5), Bryler_48 (K6), Cain_48 (K6), DARTH_P_47 (K6), Ekdilam_44 (K6), Ellie_43 (K6), Fefferhead_45 (K6), Hammy_47 (K6), Hurricane_48 (K3), Keshu_49 (K3), Krueger_51 (K6), Lavahound_44 (K6), Lea83_48 (K3), MacnCheese_49 (K3), Nergal_42 (AG), November_45 (K6), Pharb_45 (K3), PhelpsODU_47 (K6), Phrank_48 (K6), Pixie_47 (K3), Shadow1_50 (K6), ShedlockHolmes_48 (K3), SirPhilip_47 (K6), Sunflower1121_51 (K6), Syra333_50 (K6), TBond007_47 (K3), Tierra_48 (K6), Tigress9_50 (K6), TribbleTrouble_45 (K3), Unicorn_47 (K6), Ximenita_51 (K6), Yuna_51 (K6),

Start 22:

- Found in 2 of 192 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 175
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigAnti_34 (singleton), Boilgate_44 (K8),

Start 23:

- Found in 40 of 192 (20.8%) of genes in pham
- Manual Annotations of this start: 23 of 175
- Called 65.0% of time when present
- Phage (with cluster) where this start called: Aminay_48 (K7), Bobquesha_51 (K4), Chancellor_49 (K4), Cheetobro_49 (K4), DanSyl44_52 (K4), Eponine_51 (K4), Fionnbharth_49 (K4), JF1_49 (K4), Juliette_51 (K4), Kraw_49 (K4), Lebo14_48 (K4), Malthus_50 (K4), MissDaisy_47 (K4), Mitti_49 (K4), OmniCritical_48 (K4), Patt_46 (K4), Qhanda_51 (K4), Reptar3000_47 (K4), Ruthiejr_50 (K4), SamScheppers_47 (K4), Slarp_49 (K4), Taquito_49 (K4), Wintermute_49 (K4), Y10_48 (K4), Y2_48 (K4), YasnayaPolyana_49 (K4),

Start 24:

- Found in 22 of 192 (11.5%) of genes in pham
- Manual Annotations of this start: 19 of 175
- Called 95.5% of time when present
- Phage (with cluster) where this start called: Abscondus_97 (CQ1), Aphelion_99 (CQ1), Bachita_100 (CQ1), BrutonGaster_80 (CQ2), Cardigan_113 (DD), ClubL_99 (CQ1), Cucurbita_99 (CQ1), Culver_100 (CQ1), Dusty_96 (CQ1), Engineer_99 (CQ1), Geeche_97 (CQ1), JonJames_112 (DD), Lozinak_98 (CQ1), Miskis_92 (CQ1), Norvs_100 (CQ1), OneUp_86 (CQ2), PhinkBoden_97 (CQ1), Smoothie_99 (CQ1), Toniann_100 (CQ1), WilliamBoone_100 (CQ1), Yvonnestic_109 (DD),

Start 25:

- Found in 8 of 192 (4.2%) of genes in pham
- Manual Annotations of this start: 6 of 175
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Bernal13_37 (T), Ibrahim_37 (T), Nairb_36 (T), Nette_38 (T), RonRayGun_37 (T), Whitty_37 (T), ZenTime222_36 (T),

Start 26:

- Found in 3 of 192 (1.6%) of genes in pham
- Manual Annotations of this start: 3 of 175
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bantam_93 (DL), DatBoi_89 (DL), SpeedDemon_940 (DL),

Start 27:

- Found in 2 of 192 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 175
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Mendokysei_35 (T),

Start 29:

- Found in 8 of 192 (4.2%) of genes in pham
- Manual Annotations of this start: 7 of 175
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Che9d_56 (F2), Demsculpinboyz_59 (F2), Hestia_46 (AY), Kumotta_34 (FB), MargaretKali_34 (FB), ThetaBob_54 (F4), Toron_48 (F6), Yoshi_61 (F2),

Start 30:

- Found in 4 of 192 (2.1%) of genes in pham
- Manual Annotations of this start: 3 of 175
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Daredevil_83 (DL), Mollymur_93 (DL), Pigu_37 (FB), Towmatter_82 (DL),

Summary by clusters:

There are 22 clusters represented in this pham: singleton, DD, DL, K3, FB, K7, K6, K4, K8, CQ2, CQ1, AG, L4, L5, L2, T, L1, AY, F2, F4, F6, L3,

Info for manual annotations of cluster AG:

- Start number 21 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster AY:

- Start number 29 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster CQ1:

- Start number 24 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 24 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster DD:

- Start number 24 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DL:

- Start number 15 was manually annotated 1 time for cluster DL.
- Start number 26 was manually annotated 3 times for cluster DL.
- Start number 30 was manually annotated 3 times for cluster DL.

Info for manual annotations of cluster F2:

- Start number 29 was manually annotated 3 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 29 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster FB:

- Start number 29 was manually annotated 2 times for cluster FB.

Info for manual annotations of cluster K3:

- Start number 21 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 23 was manually annotated 22 times for cluster K4.

Info for manual annotations of cluster K6:

- Start number 14 was manually annotated 1 time for cluster K6.
- Start number 21 was manually annotated 24 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 23 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 22 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster L1:

- Start number 20 was manually annotated 19 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 20 was manually annotated 28 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 20 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 20 was manually annotated 6 times for cluster L4.

Info for manual annotations of cluster L5:

- Start number 21 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster T:

- Start number 25 was manually annotated 6 times for cluster T.
- Start number 27 was manually annotated 1 time for cluster T.

Gene Information:

Gene: Abscondus_97 Start: 58989, Stop: 59189, Start Num: 24

Candidate Starts for Abscondus_97:

(Start: 24 @58989 has 19 MA's), (38, 59046), (39, 59052), (53, 59130), (56, 59145),

Gene: Acquire49_40 Start: 33342, Stop: 33551, Start Num: 20

Candidate Starts for Acquire49_40:

(12, 33285), (Start: 20 @33342 has 73 MA's), (47, 33462),

Gene: Aegeus_45 Start: 37056, Stop: 37259, Start Num: 21

Candidate Starts for Aegeus_45:

(Start: 21 @37056 has 36 MA's), (32, 37089), (34, 37095), (37, 37119), (42, 37152), (54, 37209), (62, 37254),

Gene: Amgine_45 Start: 36475, Stop: 36687, Start Num: 21

Candidate Starts for Amgine_45:

(Start: 21 @36475 has 36 MA's), (51, 36619),

Gene: Aminay_48 Start: 36910, Stop: 37110, Start Num: 23

Candidate Starts for Aminay_48:

(4, 36673), (Start: 23 @36910 has 23 MA's), (40, 36982), (51, 37045),

Gene: Amohnition_40 Start: 32428, Stop: 32189, Start Num: 14
Candidate Starts for Amohnition_40:
(Start: 14 @32428 has 1 MA's), (32, 32362), (37, 32332), (42, 32299), (52, 32251), (55, 32233), (61, 32200),

Gene: Amohnition_47 Start: 36488, Stop: 36700, Start Num: 21
Candidate Starts for Amohnition_47:
(Start: 21 @36488 has 36 MA's), (51, 36632),

Gene: Aphelion_99 Start: 60542, Stop: 60742, Start Num: 24
Candidate Starts for Aphelion_99:
(Start: 24 @60542 has 19 MA's), (38, 60599), (39, 60605), (53, 60683), (56, 60698),

Gene: Applecrisp_44 Start: 35971, Stop: 36183, Start Num: 21
Candidate Starts for Applecrisp_44:
(Start: 21 @35971 has 36 MA's), (51, 36115),

Gene: Appletree2_39 Start: 33269, Stop: 33478, Start Num: 20
Candidate Starts for Appletree2_39:
(12, 33227), (Start: 20 @33269 has 73 MA's), (38, 33338), (47, 33389), (51, 33413), (54, 33425),

Gene: Archie_42 Start: 34898, Stop: 35113, Start Num: 20
Candidate Starts for Archie_42:
(Start: 20 @34898 has 73 MA's), (32, 34940), (51, 35048), (54, 35060),

Gene: AvadaKedavra_40 Start: 33351, Stop: 33560, Start Num: 20
Candidate Starts for AvadaKedavra_40:
(12, 33294), (Start: 20 @33351 has 73 MA's), (47, 33471),

Gene: Bachita_100 Start: 60200, Stop: 60400, Start Num: 24
Candidate Starts for Bachita_100:
(Start: 24 @60200 has 19 MA's), (38, 60257), (39, 60263), (53, 60341), (56, 60356),

Gene: Bantam_93 Start: 62206, Stop: 62006, Start Num: 26
Candidate Starts for Bantam_93:
(Start: 26 @62206 has 3 MA's), (31, 62191), (39, 62146), (49, 62095),

Gene: Baudelaire_45 Start: 37056, Stop: 37259, Start Num: 21
Candidate Starts for Baudelaire_45:
(Start: 21 @37056 has 36 MA's), (32, 37089), (34, 37095), (37, 37119), (42, 37152), (54, 37209), (62, 37254),

Gene: Bellis_40 Start: 34953, Stop: 35168, Start Num: 20
Candidate Starts for Bellis_40:
(Start: 20 @34953 has 73 MA's), (33, 34998), (34, 35001), (47, 35079),

Gene: Bernal13_37 Start: 30311, Stop: 30517, Start Num: 25
Candidate Starts for Bernal13_37:
(Start: 25 @30311 has 6 MA's), (63, 30506),

Gene: BigAnti_34 Start: 36676, Stop: 36885, Start Num: 22
Candidate Starts for BigAnti_34:
(Start: 22 @36676 has 1 MA's),

Gene: BigCheese_42 Start: 34694, Stop: 34909, Start Num: 20
Candidate Starts for BigCheese_42:
(Start: 20 @34694 has 73 MA's), (32, 34736), (34, 34742), (38, 34769), (40, 34781), (51, 34844), (54, 34856),

Gene: Bobquesha_51 Start: 35789, Stop: 35974, Start Num: 23
Candidate Starts for Bobquesha_51:
(Start: 23 @35789 has 23 MA's), (51, 35909),

Gene: BobsGarage_42 Start: 34694, Stop: 34909, Start Num: 20
Candidate Starts for BobsGarage_42:
(Start: 20 @34694 has 73 MA's), (32, 34736), (34, 34742), (38, 34769), (40, 34781), (51, 34844), (54, 34856),

Gene: Boilgate_44 Start: 36561, Stop: 36746, Start Num: 22
Candidate Starts for Boilgate_44:
(Start: 22 @36561 has 1 MA's),

Gene: BourbonZero_39 Start: 34932, Stop: 35150, Start Num: 20
Candidate Starts for BourbonZero_39:
(Start: 20 @34932 has 73 MA's), (33, 34980), (34, 34983), (47, 35061),

Gene: Breezona_42 Start: 34694, Stop: 34909, Start Num: 20
Candidate Starts for Breezona_42:
(Start: 20 @34694 has 73 MA's), (32, 34736), (34, 34742), (38, 34769), (40, 34781), (51, 34844), (54, 34856),

Gene: Bromden_41 Start: 34169, Stop: 34384, Start Num: 20
Candidate Starts for Bromden_41:
(Start: 20 @34169 has 73 MA's), (44, 34280), (47, 34295), (51, 34319),

Gene: BrutonGaster_80 Start: 54552, Stop: 54749, Start Num: 24
Candidate Starts for BrutonGaster_80:
(Start: 24 @54552 has 19 MA's), (48, 54663), (53, 54693),

Gene: Bryler_48 Start: 35349, Stop: 35561, Start Num: 21
Candidate Starts for Bryler_48:
(11, 35259), (Start: 21 @35349 has 36 MA's), (Start: 23 @35364 has 23 MA's), (37, 35415), (38, 35418), (51, 35493),

Gene: Cain_48 Start: 35337, Stop: 35549, Start Num: 21
Candidate Starts for Cain_48:
(11, 35247), (Start: 21 @35337 has 36 MA's), (Start: 23 @35352 has 23 MA's), (37, 35403), (38, 35406), (51, 35481),

Gene: Calm_40 Start: 33357, Stop: 33566, Start Num: 20
Candidate Starts for Calm_40:
(12, 33300), (Start: 20 @33357 has 73 MA's), (47, 33477),

Gene: Cardigan_113 Start: 64662, Stop: 64865, Start Num: 24
Candidate Starts for Cardigan_113:
(Start: 24 @64662 has 19 MA's), (47, 64764), (51, 64788), (54, 64803),

Gene: Chancellor_49 Start: 36414, Stop: 36599, Start Num: 23
Candidate Starts for Chancellor_49:
(Start: 23 @36414 has 23 MA's), (34, 36432), (37, 36456), (51, 36534),

Gene: Chaser_39 Start: 33432, Stop: 33659, Start Num: 20
Candidate Starts for Chaser_39:
(Start: 20 @33432 has 73 MA's), (32, 33474), (41, 33528), (47, 33558), (51, 33582),

Gene: Che9d_56 Start: 35970, Stop: 36149, Start Num: 29
Candidate Starts for Che9d_56:
(Start: 29 @35970 has 7 MA's), (36, 36009), (38, 36015), (42, 36045), (45, 36060), (46, 36063), (58, 36132), (59, 36138),

Gene: Cheetobro_49 Start: 36411, Stop: 36596, Start Num: 23
Candidate Starts for Cheetobro_49:
(Start: 23 @36411 has 23 MA's), (34, 36429), (37, 36453), (51, 36531),

Gene: ChutneyChips_40 Start: 33612, Stop: 33839, Start Num: 20
Candidate Starts for ChutneyChips_40:
(Start: 20 @33612 has 73 MA's), (32, 33654), (41, 33708), (47, 33738), (51, 33762),

Gene: CicholasNage_40 Start: 33378, Stop: 33587, Start Num: 20
Candidate Starts for CicholasNage_40:
(12, 33321), (Start: 20 @33378 has 73 MA's), (47, 33498),

Gene: Clautastrophe_40 Start: 34951, Stop: 35166, Start Num: 20
Candidate Starts for Clautastrophe_40:
(Start: 20 @34951 has 73 MA's), (33, 34996), (34, 34999), (47, 35077),

Gene: ClubL_99 Start: 59132, Stop: 59332, Start Num: 24
Candidate Starts for ClubL_99:
(16, 59090), (Start: 24 @59132 has 19 MA's), (53, 59273), (56, 59288),

Gene: Crossroads_42 Start: 34696, Stop: 34911, Start Num: 20
Candidate Starts for Crossroads_42:
(Start: 20 @34696 has 73 MA's), (32, 34738), (34, 34744), (38, 34771), (40, 34783), (51, 34846), (54, 34858),

Gene: Cucurbita_99 Start: 60707, Stop: 60907, Start Num: 24
Candidate Starts for Cucurbita_99:
(Start: 24 @60707 has 19 MA's), (38, 60764), (39, 60770), (53, 60848), (56, 60863),

Gene: Culver_100 Start: 59032, Stop: 59232, Start Num: 24
Candidate Starts for Culver_100:
(Start: 24 @59032 has 19 MA's), (53, 59173), (56, 59188),

Gene: DS6A_60 Start: 41278, Stop: 41484, Start Num: 20
Candidate Starts for DS6A_60:
(Start: 20 @41278 has 73 MA's), (Start: 24 @41299 has 19 MA's), (28, 41308), (41, 41365), (42, 41374), (43, 41377), (49, 41401), (50, 41404), (51, 41419), (52, 41422),

Gene: DanSyl44_52 Start: 37457, Stop: 37642, Start Num: 23

Candidate Starts for DanSyl44_52:

(Start: 23 @37457 has 23 MA's), (34, 37475), (37, 37499), (51, 37577),

Gene: Daredevil_83 Start: 57872, Stop: 57690, Start Num: 30

Candidate Starts for Daredevil_83:

(Start: 30 @57872 has 3 MA's), (47, 57782), (52, 57755),

Gene: DarthP_47 Start: 36375, Stop: 36584, Start Num: 21

Candidate Starts for DarthP_47:

(Start: 21 @36375 has 36 MA's), (47, 36492), (51, 36516),

Gene: DatBoi_89 Start: 61354, Stop: 61154, Start Num: 26

Candidate Starts for DatBoi_89:

(Start: 26 @61354 has 3 MA's), (31, 61339), (49, 61243),

Gene: DatBoi_62 Start: 46946, Stop: 47191, Start Num: 15

Candidate Starts for DatBoi_62:

(Start: 15 @46946 has 1 MA's), (19, 46970), (46, 47096), (47, 47099),

Gene: Demsculpinboyz_59 Start: 36079, Stop: 36258, Start Num: 29

Candidate Starts for Demsculpinboyz_59:

(Start: 29 @36079 has 7 MA's), (36, 36118), (38, 36124), (42, 36154), (45, 36169), (46, 36172), (55, 36220), (58, 36241), (59, 36247),

Gene: DirkDirk_39 Start: 33329, Stop: 33538, Start Num: 20

Candidate Starts for DirkDirk_39:

(12, 33287), (Start: 20 @33329 has 73 MA's), (38, 33398), (47, 33449), (51, 33473), (54, 33485),

Gene: Douge_39 Start: 33370, Stop: 33597, Start Num: 20

Candidate Starts for Douge_39:

(Start: 20 @33370 has 73 MA's), (32, 33412), (41, 33466), (47, 33496), (51, 33520),

Gene: DrSeegs_42 Start: 34694, Stop: 34909, Start Num: 20

Candidate Starts for DrSeegs_42:

(Start: 20 @34694 has 73 MA's), (32, 34736), (34, 34742), (38, 34769), (40, 34781), (51, 34844), (54, 34856),

Gene: DuncansLeg_40 Start: 34969, Stop: 35187, Start Num: 20

Candidate Starts for DuncansLeg_40:

(Start: 20 @34969 has 73 MA's), (33, 35017), (34, 35020), (47, 35098),

Gene: Dusty_96 Start: 59048, Stop: 59248, Start Num: 24

Candidate Starts for Dusty_96:

(Start: 24 @59048 has 19 MA's), (38, 59105), (39, 59111), (53, 59189), (56, 59204),

Gene: DyoEdafos_41 Start: 33704, Stop: 33919, Start Num: 20

Candidate Starts for DyoEdafos_41:

(8, 33605), (Start: 20 @33704 has 73 MA's), (34, 33752), (41, 33800), (47, 33830), (51, 33854),

Gene: Ekdilam_44 Start: 35937, Stop: 36149, Start Num: 21

Candidate Starts for Ekdilam_44:

(Start: 21 @35937 has 36 MA's), (38, 36006), (51, 36081),

Gene: Ellie_43 Start: 35663, Stop: 35875, Start Num: 21

Candidate Starts for Ellie_43:

(Start: 21 @35663 has 36 MA's), (51, 35807),

Gene: Ellson_40 Start: 34945, Stop: 35163, Start Num: 20

Candidate Starts for Ellson_40:

(Start: 20 @34945 has 73 MA's), (33, 34993), (34, 34996), (47, 35074),

Gene: Enceladus_39 Start: 33312, Stop: 33521, Start Num: 20

Candidate Starts for Enceladus_39:

(12, 33270), (Start: 20 @33312 has 73 MA's), (38, 33381), (47, 33432), (51, 33456), (54, 33468),

Gene: Engineer_99 Start: 60173, Stop: 60373, Start Num: 24

Candidate Starts for Engineer_99:

(Start: 24 @60173 has 19 MA's), (38, 60230), (39, 60236), (53, 60314), (56, 60329),

Gene: Eponine_51 Start: 37164, Stop: 37352, Start Num: 23

Candidate Starts for Eponine_51:

(13, 37113), (Start: 23 @37164 has 23 MA's), (34, 37185), (37, 37209), (51, 37287),

Gene: Faith1_42 Start: 34694, Stop: 34909, Start Num: 20

Candidate Starts for Faith1_42:

(Start: 20 @34694 has 73 MA's), (32, 34736), (34, 34742), (38, 34769), (40, 34781), (51, 34844), (54, 34856),

Gene: Fefferhead_45 Start: 35614, Stop: 35826, Start Num: 21

Candidate Starts for Fefferhead_45:

(Start: 21 @35614 has 36 MA's), (51, 35758),

Gene: Finemlucis_42 Start: 34970, Stop: 35185, Start Num: 20

Candidate Starts for Finemlucis_42:

(Start: 20 @34970 has 73 MA's), (32, 35012), (34, 35018), (40, 35057), (51, 35120), (54, 35132),

Gene: Finnry_40 Start: 34954, Stop: 35169, Start Num: 20

Candidate Starts for Finnry_40:

(Start: 20 @34954 has 73 MA's), (33, 34999), (34, 35002), (47, 35080),

Gene: Fionnbharth_49 Start: 36562, Stop: 36750, Start Num: 23

Candidate Starts for Fionnbharth_49:

(13, 36511), (Start: 23 @36562 has 23 MA's), (34, 36583), (37, 36607), (51, 36685),

Gene: Gabriela_42 Start: 34956, Stop: 35171, Start Num: 20

Candidate Starts for Gabriela_42:

(Start: 20 @34956 has 73 MA's), (32, 34998), (34, 35004), (38, 35031), (40, 35043), (51, 35106), (54, 35118),

Gene: Gardann_42 Start: 34695, Stop: 34910, Start Num: 20

Candidate Starts for Gardann_42:

(Start: 20 @34695 has 73 MA's), (32, 34737), (34, 34743), (38, 34770), (40, 34782), (51, 34845), (54, 34857),

Gene: Geeche_97 Start: 59271, Stop: 59471, Start Num: 24

Candidate Starts for Geeche_97:

(Start: 24 @59271 has 19 MA's), (38, 59328), (39, 59334), (53, 59412), (56, 59427),

Gene: GuuelaD_42 Start: 34733, Stop: 34948, Start Num: 20

Candidate Starts for GuuelaD_42:

(Start: 20 @34733 has 73 MA's), (32, 34775), (34, 34781), (38, 34808), (40, 34820), (51, 34883), (54, 34895),

Gene: Halena_39 Start: 33353, Stop: 33562, Start Num: 20

Candidate Starts for Halena_39:

(12, 33296), (Start: 20 @33353 has 73 MA's), (47, 33473),

Gene: Hammy_47 Start: 36363, Stop: 36572, Start Num: 21

Candidate Starts for Hammy_47:

(Start: 21 @36363 has 36 MA's), (47, 36480), (51, 36504),

Gene: Hestia_46 Start: 29789, Stop: 29977, Start Num: 29

Candidate Starts for Hestia_46:

(Start: 29 @29789 has 7 MA's),

Gene: Hurricane_48 Start: 36096, Stop: 36308, Start Num: 21

Candidate Starts for Hurricane_48:

(Start: 21 @36096 has 36 MA's), (47, 36216), (51, 36240),

Gene: Ibrahim_37 Start: 30757, Stop: 30963, Start Num: 25

Candidate Starts for Ibrahim_37:

(Start: 25 @30757 has 6 MA's), (63, 30952),

Gene: Itos_41 Start: 33600, Stop: 33815, Start Num: 20

Candidate Starts for Itos_41:

(Start: 20 @33600 has 73 MA's), (32, 33642), (34, 33648), (38, 33675), (40, 33687), (51, 33750), (54, 33762),

Gene: JF1_49 Start: 36482, Stop: 36667, Start Num: 23

Candidate Starts for JF1_49:

(Start: 23 @36482 has 23 MA's), (34, 36500), (37, 36524), (51, 36602),

Gene: Jace_29 Start: 24871, Stop: 25110, Start Num: 18

Candidate Starts for Jace_29:

(2, 24649), (3, 24655), (5, 24694), (6, 24736), (10, 24778), (Start: 18 @24871 has 1 MA's), (Start: 23 @24901 has 23 MA's), (33, 24931), (35, 24949), (56, 25060),

Gene: Jobypre_40 Start: 34951, Stop: 35166, Start Num: 20

Candidate Starts for Jobypre_40:

(Start: 20 @34951 has 73 MA's), (33, 34996), (34, 34999), (47, 35077),

Gene: JoeDirt_39 Start: 33310, Stop: 33519, Start Num: 20

Candidate Starts for JoeDirt_39:

(12, 33268), (Start: 20 @33310 has 73 MA's), (38, 33379), (47, 33430), (51, 33454), (54, 33466),

Gene: JonJames_112 Start: 65173, Stop: 65376, Start Num: 24

Candidate Starts for JonJames_112:

(Start: 24 @65173 has 19 MA's), (47, 65275), (51, 65299), (54, 65314), (60, 65353),

Gene: Jubie_40 Start: 34952, Stop: 35167, Start Num: 20
Candidate Starts for Jubie_40:
(Start: 20 @34952 has 73 MA's), (33, 34997), (34, 35000), (47, 35078),

Gene: Juliette_51 Start: 36638, Stop: 36823, Start Num: 23
Candidate Starts for Juliette_51:
(Start: 23 @36638 has 23 MA's), (34, 36656), (37, 36680), (51, 36758),

Gene: Kahlid_42 Start: 34700, Stop: 34915, Start Num: 20
Candidate Starts for Kahlid_42:
(Start: 20 @34700 has 73 MA's), (32, 34742), (34, 34748), (38, 34775), (40, 34787), (51, 34850), (54, 34862),

Gene: Keshu_49 Start: 36154, Stop: 36366, Start Num: 21
Candidate Starts for Keshu_49:
(Start: 21 @36154 has 36 MA's), (47, 36274), (51, 36298),

Gene: Kingsolomon_40 Start: 34951, Stop: 35166, Start Num: 20
Candidate Starts for Kingsolomon_40:
(Start: 20 @34951 has 73 MA's), (33, 34996), (34, 34999), (47, 35077),

Gene: KirDoubleO7_38 Start: 34973, Stop: 35191, Start Num: 20
Candidate Starts for KirDoubleO7_38:
(Start: 20 @34973 has 73 MA's), (33, 35021), (34, 35024), (47, 35102),

Gene: Kraw_49 Start: 36326, Stop: 36511, Start Num: 23
Candidate Starts for Kraw_49:
(Start: 23 @36326 has 23 MA's), (34, 36344), (37, 36368), (51, 36446),

Gene: Kropertea_40 Start: 33527, Stop: 33742, Start Num: 20
Candidate Starts for Kropertea_40:
(8, 33428), (Start: 20 @33527 has 73 MA's), (34, 33575), (41, 33623), (47, 33653), (51, 33677),

Gene: Krueger_51 Start: 36343, Stop: 36555, Start Num: 21
Candidate Starts for Krueger_51:
(Start: 21 @36343 has 36 MA's), (Start: 23 @36358 has 23 MA's), (37, 36409), (38, 36412), (51, 36487),

Gene: Krypton555_40 Start: 34868, Stop: 35083, Start Num: 20
Candidate Starts for Krypton555_40:
(Start: 20 @34868 has 73 MA's), (33, 34913), (34, 34916), (47, 34994),

Gene: Kumotta_34 Start: 26417, Stop: 26599, Start Num: 29
Candidate Starts for Kumotta_34:
(Start: 29 @26417 has 7 MA's),

Gene: Lavahound_44 Start: 36596, Stop: 36808, Start Num: 21
Candidate Starts for Lavahound_44:
(Start: 21 @36596 has 36 MA's), (51, 36740),

Gene: LeBron_40 Start: 33354, Stop: 33563, Start Num: 20
Candidate Starts for LeBron_40:
(12, 33312), (Start: 20 @33354 has 73 MA's), (38, 33423), (47, 33474), (51, 33498), (54, 33510),

Gene: Lea83_48 Start: 36128, Stop: 36340, Start Num: 21

Candidate Starts for Lea83_48:

(Start: 21 @36128 has 36 MA's), (47, 36248), (51, 36272),

Gene: Lebo14_48 Start: 36592, Stop: 36777, Start Num: 23

Candidate Starts for Lebo14_48:

(Start: 23 @36592 has 23 MA's), (34, 36610), (37, 36634), (51, 36712),

Gene: Lewan_42 Start: 34687, Stop: 34902, Start Num: 20

Candidate Starts for Lewan_42:

(Start: 20 @34687 has 73 MA's), (32, 34729), (34, 34735), (38, 34762), (40, 34774), (51, 34837), (54, 34849),

Gene: LilDestine_42 Start: 34692, Stop: 34907, Start Num: 20

Candidate Starts for LilDestine_42:

(Start: 20 @34692 has 73 MA's), (32, 34734), (34, 34740), (38, 34767), (40, 34779), (51, 34842), (54, 34854),

Gene: LiyuLake_40 Start: 34935, Stop: 35153, Start Num: 20

Candidate Starts for LiyuLake_40:

(Start: 20 @34935 has 73 MA's), (33, 34983), (34, 34986), (47, 35064),

Gene: Loadrie_42 Start: 34726, Stop: 34941, Start Num: 20

Candidate Starts for Loadrie_42:

(Start: 20 @34726 has 73 MA's), (32, 34768), (34, 34774), (38, 34801), (40, 34813), (51, 34876), (54, 34888),

Gene: Lolly9_40 Start: 34759, Stop: 34977, Start Num: 20

Candidate Starts for Lolly9_40:

(Start: 20 @34759 has 73 MA's), (33, 34807), (34, 34810), (47, 34888),

Gene: Lozinak_98 Start: 60011, Stop: 60211, Start Num: 24

Candidate Starts for Lozinak_98:

(Start: 24 @60011 has 19 MA's), (38, 60068), (39, 60074), (53, 60152), (56, 60167),

Gene: Lumos_40 Start: 34948, Stop: 35163, Start Num: 20

Candidate Starts for Lumos_40:

(Start: 20 @34948 has 73 MA's), (33, 34993), (34, 34996), (47, 35074),

Gene: MAckerman_40 Start: 33347, Stop: 33556, Start Num: 20

Candidate Starts for MAckerman_40:

(12, 33290), (Start: 20 @33347 has 73 MA's), (47, 33467),

Gene: MacnCheese_49 Start: 37043, Stop: 37276, Start Num: 21

Candidate Starts for MacnCheese_49:

(Start: 21 @37043 has 36 MA's), (47, 37163), (51, 37187),

Gene: Malthus_50 Start: 36326, Stop: 36511, Start Num: 23

Candidate Starts for Malthus_50:

(Start: 23 @36326 has 23 MA's), (34, 36344), (37, 36368), (51, 36446),

Gene: MargaretKali_34 Start: 26052, Stop: 26234, Start Num: 29

Candidate Starts for MargaretKali_34:

(Start: 29 @26052 has 7 MA's),

Gene: Mendokysei_35 Start: 29852, Stop: 30055, Start Num: 27

Candidate Starts for Mendokysei_35:

(Start: 25 @29849 has 6 MA's), (Start: 27 @29852 has 1 MA's), (63, 30044),

Gene: Miley16_42 Start: 34694, Stop: 34909, Start Num: 20

Candidate Starts for Miley16_42:

(Start: 20 @34694 has 73 MA's), (32, 34736), (34, 34742), (38, 34769), (40, 34781), (51, 34844), (54, 34856),

Gene: MiniLon_40 Start: 34760, Stop: 34978, Start Num: 20

Candidate Starts for MiniLon_40:

(Start: 20 @34760 has 73 MA's), (33, 34808), (34, 34811), (47, 34889),

Gene: MiniMac_40 Start: 34757, Stop: 34975, Start Num: 20

Candidate Starts for MiniMac_40:

(Start: 20 @34757 has 73 MA's), (33, 34805), (34, 34808), (47, 34886),

Gene: Miskis_92 Start: 58711, Stop: 58911, Start Num: 24

Candidate Starts for Miskis_92:

(Start: 24 @58711 has 19 MA's), (38, 58768), (39, 58774), (53, 58852), (56, 58867),

Gene: MissDaisy_47 Start: 35801, Stop: 35989, Start Num: 23

Candidate Starts for MissDaisy_47:

(Start: 23 @35801 has 23 MA's), (37, 35846), (51, 35924),

Gene: Mitti_49 Start: 36502, Stop: 36687, Start Num: 23

Candidate Starts for Mitti_49:

(Start: 23 @36502 has 23 MA's), (34, 36520), (37, 36544), (51, 36622),

Gene: MkaliMitinis3_42 Start: 34696, Stop: 34911, Start Num: 20

Candidate Starts for MkaliMitinis3_42:

(Start: 20 @34696 has 73 MA's), (32, 34738), (34, 34744), (38, 34771), (40, 34783), (51, 34846), (54, 34858),

Gene: Mollymur_93 Start: 63027, Stop: 62845, Start Num: 30

Candidate Starts for Mollymur_93:

(Start: 30 @63027 has 3 MA's),

Gene: Moostard_40 Start: 34953, Stop: 35168, Start Num: 20

Candidate Starts for Moostard_40:

(Start: 20 @34953 has 73 MA's), (33, 34998), (34, 35001), (47, 35079),

Gene: MsGreen_40 Start: 34951, Stop: 35166, Start Num: 20

Candidate Starts for MsGreen_40:

(Start: 20 @34951 has 73 MA's), (33, 34996), (34, 34999), (47, 35077),

Gene: Nairb_36 Start: 30311, Stop: 30517, Start Num: 25

Candidate Starts for Nairb_36:

(Start: 25 @30311 has 6 MA's), (63, 30506),

Gene: Nergal_42 Start: 34081, Stop: 34293, Start Num: 21

Candidate Starts for Nergal_42:

(Start: 21 @34081 has 36 MA's), (47, 34201), (51, 34225),

Gene: Nette_38 Start: 29858, Stop: 30064, Start Num: 25

Candidate Starts for Nette_38:

(Start: 25 @29858 has 6 MA's), (Start: 27 @29861 has 1 MA's), (63, 30053),

Gene: Netyap_42 Start: 34694, Stop: 34909, Start Num: 20

Candidate Starts for Netyap_42:

(Start: 20 @34694 has 73 MA's), (32, 34736), (34, 34742), (38, 34769), (40, 34781), (51, 34844), (54, 34856),

Gene: Nicholas_40 Start: 34951, Stop: 35166, Start Num: 20

Candidate Starts for Nicholas_40:

(Start: 20 @34951 has 73 MA's), (33, 34996), (34, 34999), (47, 35077),

Gene: Nicholasp3_42 Start: 34695, Stop: 34910, Start Num: 20

Candidate Starts for Nicholasp3_42:

(Start: 20 @34695 has 73 MA's), (32, 34737), (34, 34743), (38, 34770), (40, 34782), (51, 34845), (54, 34857),

Gene: Norvs_100 Start: 60040, Stop: 60240, Start Num: 24

Candidate Starts for Norvs_100:

(Start: 24 @60040 has 19 MA's), (38, 60097), (39, 60103), (53, 60181), (56, 60196),

Gene: November_45 Start: 36096, Stop: 36308, Start Num: 21

Candidate Starts for November_45:

(Start: 21 @36096 has 36 MA's), (62, 36297),

Gene: OhShagHennessy_39 Start: 33300, Stop: 33509, Start Num: 20

Candidate Starts for OhShagHennessy_39:

(12, 33258), (Start: 20 @33300 has 73 MA's), (38, 33369), (47, 33420), (51, 33444), (54, 33456),

Gene: OmniCritical_48 Start: 36311, Stop: 36496, Start Num: 23

Candidate Starts for OmniCritical_48:

(Start: 23 @36311 has 23 MA's), (34, 36329), (37, 36353), (51, 36431),

Gene: OneUp_86 Start: 56418, Stop: 56615, Start Num: 24

Candidate Starts for OneUp_86:

(9, 56301), (16, 56376), (17, 56394), (Start: 24 @56418 has 19 MA's), (56, 56574),

Gene: Patt_46 Start: 35525, Stop: 35713, Start Num: 23

Candidate Starts for Patt_46:

(4, 35309), (Start: 23 @35525 has 23 MA's), (37, 35570), (51, 35648),

Gene: Pharb_45 Start: 34846, Stop: 35067, Start Num: 21

Candidate Starts for Pharb_45:

(11, 34756), (Start: 21 @34846 has 36 MA's), (47, 34966), (51, 34990),

Gene: PhelpsODU_47 Start: 35370, Stop: 35582, Start Num: 21

Candidate Starts for PhelpsODU_47:

(11, 35280), (Start: 21 @35370 has 36 MA's), (Start: 23 @35385 has 23 MA's), (37, 35436), (38, 35439), (51, 35514),

Gene: PhinkBoden_97 Start: 59801, Stop: 60001, Start Num: 24

Candidate Starts for PhinkBoden_97:

(Start: 24 @59801 has 19 MA's), (38, 59858), (39, 59864), (53, 59942), (56, 59957),

Gene: Phrank_48 Start: 35327, Stop: 35539, Start Num: 21

Candidate Starts for Phrank_48:

(11, 35237), (Start: 21 @35327 has 36 MA's), (Start: 23 @35342 has 23 MA's), (37, 35393), (38, 35396), (51, 35471),

Gene: Pigu_37 Start: 25613, Stop: 25792, Start Num: 30

Candidate Starts for Pigu_37:

(1, 25346), (Start: 30 @25613 has 3 MA's), (37, 25652),

Gene: Pixie_47 Start: 35607, Stop: 35819, Start Num: 21

Candidate Starts for Pixie_47:

(Start: 21 @35607 has 36 MA's), (33, 35646), (47, 35727), (51, 35751),

Gene: Pochiewood_39 Start: 33328, Stop: 33537, Start Num: 20

Candidate Starts for Pochiewood_39:

(12, 33286), (Start: 20 @33328 has 73 MA's), (38, 33397), (47, 33448), (51, 33472), (54, 33484),

Gene: Qhanda_51 Start: 36423, Stop: 36608, Start Num: 23

Candidate Starts for Qhanda_51:

(Start: 23 @36423 has 23 MA's), (34, 36441), (37, 36465), (51, 36543),

Gene: Red305_40 Start: 34951, Stop: 35166, Start Num: 20

Candidate Starts for Red305_40:

(Start: 20 @34951 has 73 MA's), (33, 34996), (34, 34999), (47, 35077),

Gene: Reptar3000_47 Start: 35516, Stop: 35701, Start Num: 23

Candidate Starts for Reptar3000_47:

(Start: 23 @35516 has 23 MA's), (51, 35636),

Gene: RonRayGun_37 Start: 30757, Stop: 30963, Start Num: 25

Candidate Starts for RonRayGun_37:

(Start: 25 @30757 has 6 MA's), (63, 30952),

Gene: Rose5_39 Start: 33342, Stop: 33551, Start Num: 20

Candidate Starts for Rose5_39:

(12, 33285), (Start: 20 @33342 has 73 MA's), (47, 33462),

Gene: Rossetti_42 Start: 34961, Stop: 35176, Start Num: 20

Candidate Starts for Rossetti_42:

(Start: 20 @34961 has 73 MA's), (32, 35003), (34, 35009), (51, 35111), (54, 35123),

Gene: Rumpelstiltskin_42 Start: 34961, Stop: 35173, Start Num: 20

Candidate Starts for Rumpelstiltskin_42:

(Start: 20 @34961 has 73 MA's), (32, 35003), (34, 35009), (38, 35036), (40, 35048), (51, 35111), (54, 35123),

Gene: Ruthiejr_50 Start: 36376, Stop: 36561, Start Num: 23
Candidate Starts for Ruthiejr_50:
(Start: 23 @36376 has 23 MA's), (34, 36394), (37, 36418), (51, 36496),

Gene: SamScheppers_47 Start: 36805, Stop: 36990, Start Num: 23
Candidate Starts for SamScheppers_47:
(Start: 23 @36805 has 23 MA's), (34, 36823), (37, 36847), (51, 36925),

Gene: Samty_40 Start: 34952, Stop: 35167, Start Num: 20
Candidate Starts for Samty_40:
(Start: 20 @34952 has 73 MA's), (33, 34997), (34, 35000), (47, 35078),

Gene: Shadow1_50 Start: 36488, Stop: 36700, Start Num: 21
Candidate Starts for Shadow1_50:
(Start: 21 @36488 has 36 MA's), (Start: 23 @36503 has 23 MA's), (51, 36632), (62, 36689),

Gene: ShedlockHolmes_48 Start: 36132, Stop: 36344, Start Num: 21
Candidate Starts for ShedlockHolmes_48:
(Start: 21 @36132 has 36 MA's), (47, 36252), (51, 36276),

Gene: Sheng711_40 Start: 33476, Stop: 33703, Start Num: 20
Candidate Starts for Sheng711_40:
(Start: 20 @33476 has 73 MA's), (32, 33518), (41, 33572), (47, 33602), (51, 33626),

Gene: Silverleaf_39 Start: 33342, Stop: 33551, Start Num: 20
Candidate Starts for Silverleaf_39:
(12, 33285), (Start: 20 @33342 has 73 MA's), (47, 33462),

Gene: SirPhilip_47 Start: 36707, Stop: 36919, Start Num: 21
Candidate Starts for SirPhilip_47:
(7, 36575), (Start: 21 @36707 has 36 MA's), (38, 36776), (51, 36851),

Gene: Slarp_49 Start: 36414, Stop: 36599, Start Num: 23
Candidate Starts for Slarp_49:
(Start: 23 @36414 has 23 MA's), (34, 36432), (37, 36456), (51, 36534),

Gene: Smoothie_99 Start: 60011, Stop: 60211, Start Num: 24
Candidate Starts for Smoothie_99:
(Start: 24 @60011 has 19 MA's), (38, 60068), (39, 60074), (53, 60152), (56, 60167),

Gene: Snenia_40 Start: 34952, Stop: 35167, Start Num: 20
Candidate Starts for Snenia_40:
(Start: 20 @34952 has 73 MA's), (33, 34997), (34, 35000), (47, 35078),

Gene: SpeedDemon_940 Start: 64127, Stop: 63927, Start Num: 26
Candidate Starts for SpeedDemon_940:
(Start: 26 @64127 has 3 MA's), (31, 64112), (39, 64067), (49, 64016),

Gene: Sunflower1121_51 Start: 36589, Stop: 36801, Start Num: 21
Candidate Starts for Sunflower1121_51:
(Start: 21 @36589 has 36 MA's), (Start: 23 @36604 has 23 MA's), (51, 36733), (62, 36790),

Gene: Syra333_50 Start: 36256, Stop: 36468, Start Num: 21

Candidate Starts for Syra333_50:

(Start: 21 @36256 has 36 MA's), (Start: 23 @36271 has 23 MA's), (51, 36400), (62, 36457),

Gene: TBond007_47 Start: 35606, Stop: 35818, Start Num: 21

Candidate Starts for TBond007_47:

(Start: 21 @35606 has 36 MA's), (33, 35645), (47, 35726), (51, 35750),

Gene: Taquito_49 Start: 36661, Stop: 36846, Start Num: 23

Candidate Starts for Taquito_49:

(Start: 23 @36661 has 23 MA's), (34, 36679), (37, 36703), (51, 36781),

Gene: ThetaBob_54 Start: 36886, Stop: 37065, Start Num: 29

Candidate Starts for ThetaBob_54:

(Start: 29 @36886 has 7 MA's), (36, 36925), (38, 36931), (42, 36961), (45, 36976), (46, 36979), (55, 37027), (57, 37039), (58, 37048), (59, 37054),

Gene: Tierra_48 Start: 36138, Stop: 36350, Start Num: 21

Candidate Starts for Tierra_48:

(11, 36048), (Start: 21 @36138 has 36 MA's), (Start: 23 @36153 has 23 MA's), (37, 36204), (38, 36207), (51, 36282),

Gene: Tigress9_50 Start: 36343, Stop: 36555, Start Num: 21

Candidate Starts for Tigress9_50:

(Start: 21 @36343 has 36 MA's), (Start: 23 @36358 has 23 MA's), (37, 36409), (38, 36412), (51, 36487),

Gene: Toniann_100 Start: 59980, Stop: 60180, Start Num: 24

Candidate Starts for Toniann_100:

(Start: 24 @59980 has 19 MA's), (38, 60037), (39, 60043), (53, 60121), (56, 60136),

Gene: Toron_48 Start: 36637, Stop: 36816, Start Num: 29

Candidate Starts for Toron_48:

(Start: 29 @36637 has 7 MA's), (38, 36682), (42, 36712), (45, 36727), (46, 36730), (55, 36778), (57, 36790), (58, 36799),

Gene: Tourach_42 Start: 34709, Stop: 34924, Start Num: 20

Candidate Starts for Tourach_42:

(Start: 20 @34709 has 73 MA's), (32, 34751), (34, 34757), (37, 34781), (51, 34859), (54, 34871),

Gene: Towmatter_82 Start: 57951, Stop: 57769, Start Num: 30

Candidate Starts for Towmatter_82:

(Start: 30 @57951 has 3 MA's), (47, 57861), (52, 57834),

Gene: TriFive_40 Start: 34951, Stop: 35166, Start Num: 20

Candidate Starts for TriFive_40:

(Start: 20 @34951 has 73 MA's), (33, 34996), (34, 34999), (47, 35077),

Gene: TribbleTrouble_45 Start: 35497, Stop: 35709, Start Num: 21

Candidate Starts for TribbleTrouble_45:

(Start: 21 @35497 has 36 MA's), (Start: 23 @35512 has 23 MA's), (51, 35641),

Gene: Tyson_39 Start: 33343, Stop: 33552, Start Num: 20

Candidate Starts for Tyson_39:

(12, 33286), (Start: 20 @33343 has 73 MA's), (47, 33463),

Gene: UPIE_40 Start: 33326, Stop: 33535, Start Num: 20

Candidate Starts for UPIE_40:

(12, 33284), (Start: 20 @33326 has 73 MA's), (38, 33395), (47, 33446), (51, 33470), (54, 33482),

Gene: Underpass_42 Start: 34695, Stop: 34910, Start Num: 20

Candidate Starts for Underpass_42:

(Start: 20 @34695 has 73 MA's), (32, 34737), (34, 34743), (38, 34770), (40, 34782), (51, 34845), (54, 34857),

Gene: Unicorn_47 Start: 35370, Stop: 35582, Start Num: 21

Candidate Starts for Unicorn_47:

(11, 35280), (Start: 21 @35370 has 36 MA's), (Start: 23 @35385 has 23 MA's), (37, 35436), (38, 35439), (51, 35514),

Gene: Vetric_42 Start: 34701, Stop: 34916, Start Num: 20

Candidate Starts for Vetric_42:

(Start: 20 @34701 has 73 MA's), (32, 34743), (34, 34749), (38, 34776), (40, 34788), (51, 34851), (54, 34863),

Gene: Wamburgexpress_40 Start: 33341, Stop: 33550, Start Num: 20

Candidate Starts for Wamburgexpress_40:

(12, 33299), (Start: 20 @33341 has 73 MA's), (38, 33410), (47, 33461), (51, 33485), (54, 33497),

Gene: Whirlwind_41 Start: 34710, Stop: 34925, Start Num: 20

Candidate Starts for Whirlwind_41:

(Start: 20 @34710 has 73 MA's), (33, 34755), (34, 34758), (47, 34836),

Gene: Whitty_37 Start: 30311, Stop: 30517, Start Num: 25

Candidate Starts for Whitty_37:

(Start: 25 @30311 has 6 MA's), (63, 30506),

Gene: Wigglewobble_42 Start: 34727, Stop: 34942, Start Num: 20

Candidate Starts for Wigglewobble_42:

(Start: 20 @34727 has 73 MA's), (32, 34769), (34, 34775), (38, 34802), (40, 34814), (51, 34877), (54, 34889),

Gene: Wilder_42 Start: 34700, Stop: 34915, Start Num: 20

Candidate Starts for Wilder_42:

(Start: 20 @34700 has 73 MA's), (32, 34742), (34, 34748), (38, 34775), (40, 34787), (51, 34850), (54, 34862),

Gene: WilliamBoone_100 Start: 58743, Stop: 58943, Start Num: 24

Candidate Starts for WilliamBoone_100:

(Start: 24 @58743 has 19 MA's), (48, 58854), (52, 58878),

Gene: Winky_42 Start: 34694, Stop: 34909, Start Num: 20

Candidate Starts for Winky_42:

(Start: 20 @34694 has 73 MA's), (32, 34736), (34, 34742), (38, 34769), (40, 34781), (51, 34844), (54, 34856),

Gene: Wintermute_49 Start: 36563, Stop: 36748, Start Num: 23

Candidate Starts for Wintermute_49:

(Start: 23 @36563 has 23 MA's), (34, 36581), (37, 36605), (51, 36683),

Gene: Wyatt2_40 Start: 33342, Stop: 33551, Start Num: 20

Candidate Starts for Wyatt2_40:

(12, 33285), (Start: 20 @33342 has 73 MA's), (47, 33462),

Gene: Ximenita_51 Start: 36442, Stop: 36654, Start Num: 21

Candidate Starts for Ximenita_51:

(Start: 21 @36442 has 36 MA's), (Start: 23 @36457 has 23 MA's), (51, 36586), (58, 36628), (62, 36643),

Gene: Y10_48 Start: 36482, Stop: 36667, Start Num: 23

Candidate Starts for Y10_48:

(Start: 23 @36482 has 23 MA's), (34, 36500), (37, 36524), (51, 36602),

Gene: Y2_48 Start: 36482, Stop: 36667, Start Num: 23

Candidate Starts for Y2_48:

(Start: 23 @36482 has 23 MA's), (34, 36500), (37, 36524), (51, 36602),

Gene: YasnayaPolyana_49 Start: 36413, Stop: 36598, Start Num: 23

Candidate Starts for YasnayaPolyana_49:

(Start: 23 @36413 has 23 MA's), (34, 36431), (37, 36455), (51, 36533),

Gene: Yoshi_61 Start: 38120, Stop: 38299, Start Num: 29

Candidate Starts for Yoshi_61:

(Start: 29 @38120 has 7 MA's), (36, 38159), (38, 38165), (42, 38195), (45, 38210), (46, 38213), (55, 38261), (58, 38282), (59, 38288),

Gene: Yuna_51 Start: 37201, Stop: 37413, Start Num: 21

Candidate Starts for Yuna_51:

(Start: 21 @37201 has 36 MA's), (51, 37345), (62, 37402),

Gene: Yvonnetastic_109 Start: 62358, Stop: 62561, Start Num: 24

Candidate Starts for Yvonnetastic_109:

(Start: 24 @62358 has 19 MA's), (47, 62460), (51, 62484), (54, 62499),

Gene: Zakai_42 Start: 34952, Stop: 35167, Start Num: 20

Candidate Starts for Zakai_42:

(Start: 20 @34952 has 73 MA's), (32, 34994), (34, 35000), (38, 35027), (40, 35039), (51, 35102), (54, 35114),

Gene: Zaria_40 Start: 33357, Stop: 33566, Start Num: 20

Candidate Starts for Zaria_40:

(12, 33300), (Start: 20 @33357 has 73 MA's), (47, 33477),

Gene: ZenTime222_36 Start: 30311, Stop: 30517, Start Num: 25

Candidate Starts for ZenTime222_36:

(Start: 25 @30311 has 6 MA's), (63, 30506),