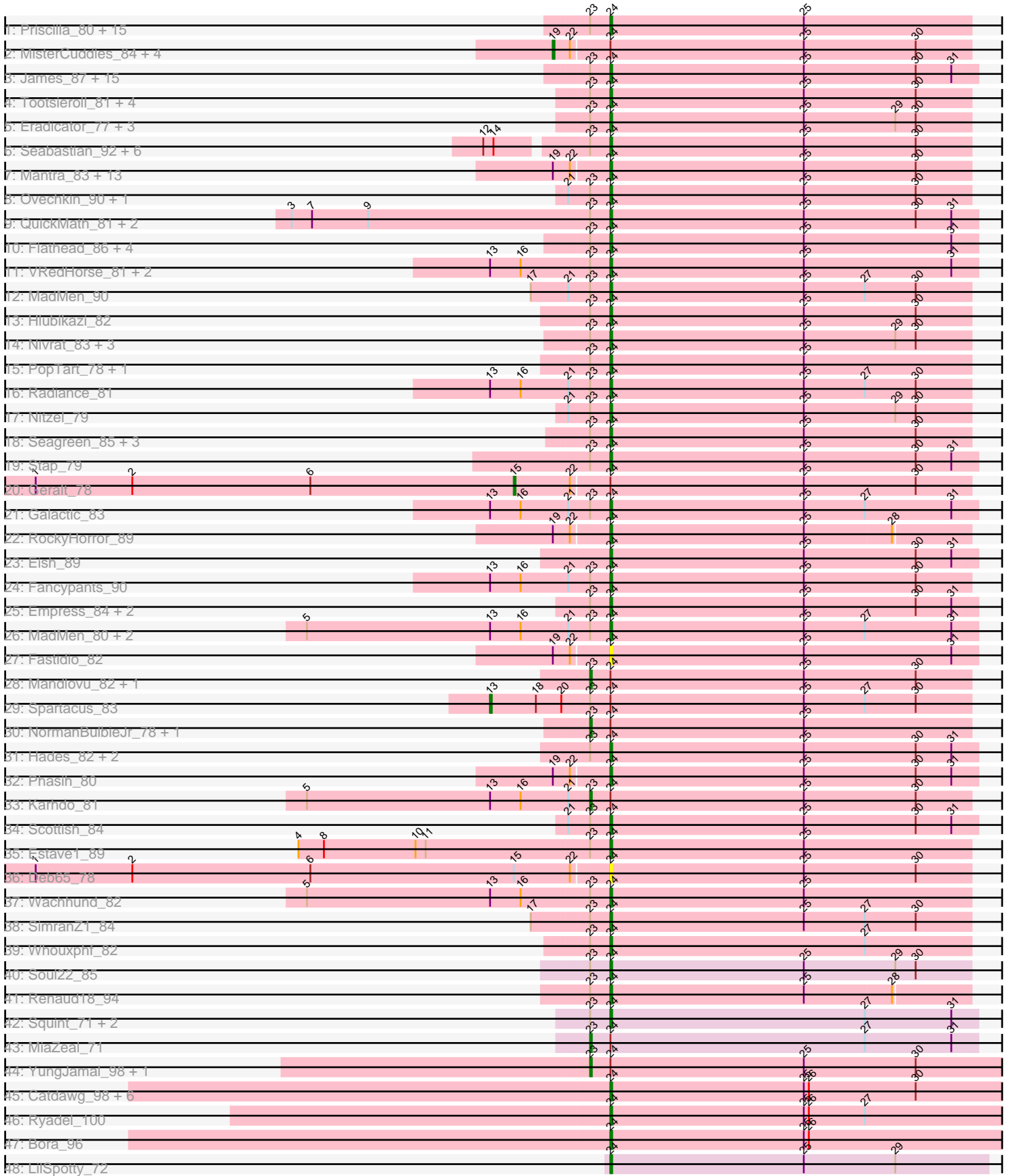


Pham 755



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 755 Report

This analysis was run 07/09/24 on database version 566.

Pham number 755 has 141 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Priscilla_80, Burwell21_79, Crumble_80, FreddyB_93, Pippy_80, Lizziana_86, Cabrinians_81, BobaPhett_85, Saal_81, Harley_86, Brocalys_75, Maravista_82, LastJedi_75, SwagPiggett_86, Shauna1_84, Gorge_83
- Track 2 : MisterCuddles_84, Girr_83, OldBen_82, Starceвич_86, Ruby_81
- Track 3 : James_87, Hegedechwinu_84, JalFarm20_91, Ms6_85, KristaRAM_83, ShiLan_86, BodEinwohner17_92, OlympiaSaint_86, Moonbeam_84, Spoonbill_82, Mattes_83, MilleniumForce_85, KashFlow_65, Jarcob_86, Phanphagia_85, Ramsey_87
- Track 4 : Tootsieroll_81, Polka14_90, Doomphist_89, KingMidas_85, Poenanya_89
- Track 5 : Eradicator_77, LunaStella_81, TChen_83, ShroomBoi_83
- Track 6 : Seabastian_92, Jinglebell_89, Llama_91, Che9d_95, Ochi17_90, OfUltron_92, Modragons_89
- Track 7 : Mantra_83, Zerg_85, QuickMath_86, Nimbo_77, GigiOuiOui_81, RitaG_85, PHappiness_85, Juice456_84, Alexphander_88, SiSi_82, Veteran_78, Kimberlium_88, GUmbie_83, Daenerys_84
- Track 8 : Ovechkin_90, Demsculpinboyz_92
- Track 9 : QuickMath_81, Juice456_79, Royals2015_87
- Track 10 : Flathead_86, CaptainTrips_85, Gonephishing_70, MinionDave_81, Mova_87
- Track 11 : VRedHorse_81, Pacc40_74, Cornucopia_82
- Track 12 : MadMen_90
- Track 13 : Hlubikazi_82
- Track 14 : Nivrat_83, DaWorst_84, LilMoolah_85, Ogopogo_90
- Track 15 : PopTart_78, SassyB_78
- Track 16 : Radiance_81
- Track 17 : Nitzel_79
- Track 18 : Seagreen_85, DillTech15_89, Leozinho_83, Ibhubesi_84
- Track 19 : Stap_79
- Track 20 : Geralt_78
- Track 21 : Galactic_83
- Track 22 : RockyHorror_89
- Track 23 : Eish_89
- Track 24 : Fancypants_90
- Track 25 : Empress_84, Phoebus_73, Zizzle_87
- Track 26 : MadMen_80, Sabbb_84, Kersh_84
- Track 27 : Fastidio_82
- Track 28 : Mandlovu_82, Strokeseat_82

- Track 29 : Spartacus_83
- Track 30 : NormanBulbieJr_78, Koella_72
- Track 31 : Hades_82, Omega_76, LittleE_73
- Track 32 : Phasih_80
- Track 33 : Karhdo_81
- Track 34 : Scottish_84
- Track 35 : Estave1_89
- Track 36 : Deb65_78
- Track 37 : Wachhund_82
- Track 38 : SimranZ1_84
- Track 39 : Whouxphf_82
- Track 40 : Soul22_85
- Track 41 : Renaud18_94
- Track 42 : Squint_71, Ariel_70, Porcelain_70
- Track 43 : MiaZeal_71
- Track 44 : YungJamal_98, Corndog_97
- Track 45 : Catdawg_98, Idergollasper_99, Krili_99, Familton_98, Shida_99, TelAviv_94, SchoolBus_96
- Track 46 : Ryadel_100
- Track 47 : Bora_96
- Track 48 : LilSpotty_72

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

The start number called the most often in the published annotations is 24, it was called in 121 of the 136 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alexphander_88, Ariel_70, BobaPhett_85, BodEinwohner17_92, Bora_96, Brocalys_75, Burwell21_79, Cabrinians_81, CaptainTrips_85, Catdawg_98, Che9d_95, Cornucopia_82, Crumble_80, DaWorst_84, Daenerys_84, Deb65_78, Demsculpinboyz_92, DillTech15_89, Doomphist_89, Eish_89, Empress_84, Eradicator_77, Estave1_89, Familton_98, Fancypants_90, Fastidio_82, Flathead_86, FreddyB_93, GUmbie_83, Galactic_83, GigiOuiOui_81, Gonephishing_70, Gorge_83, Hades_82, Harley_86, Hegedechwinu_84, Hlubikazi_82, Ibhubesi_84, Idergollasper_99, JalFarm20_91, James_87, Jarcob_86, Jinglebell_89, Juice456_79, Juice456_84, KashFlow_65, Kersh_84, Kimberlium_88, KingMidas_85, Krili_99, KristaRAM_83, LastJedi_75, Leozinho_83, LilMoolah_85, LilSpotty_72, LittleE_73, Lizziana_86, Llama_91, LunaStella_81, MadMen_80, MadMen_90, Mantra_83, Maravista_82, Mattes_83, MilleniumForce_85, MinionDave_81, Modragons_89, Moonbeam_84, Mova_87, Ms6_85, Nimbo_77, Nitzel_79, Nivrat_83, Ochi17_90, OfUltron_92, Ogotogo_90, OlympiaSaint_86, Omega_76, Ovechkin_90, PHappiness_85, Pacc40_74, Phanphagia_85, Phasih_80, Phoebus_73, Pippy_80, Poenanya_89, Polka14_90, PopTart_78, Porcelain_70, Priscilla_80, QuickMath_81, QuickMath_86, Radiance_81, Ramsey_87, Renaud18_94, RitaG_85, RockyHorror_89, Royals2015_87, Ryadel_100, Saal_81, Sabbb_84, SassyB_78, SchoolBus_96, Scottish_84, Sebastian_92, Seagreen_85, Shauna1_84, ShiLan_86, Shida_99, ShroomBoi_83, SiSi_82, SimranZ1_84, Soul22_85, Spoonbill_82, Squint_71, Stap_79, SwagPiggett_86, TChen_83, TelAviv_94, Tootsieroll_81, VRedHorse_81, Veteran_78, Wachhund_82, Whouxphf_82, Zerg_85, Zizzle_87,

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

- Corndog_97, Geralt_78, Girr_83, Karhdo_81, Koella_72, Mandlovu_82, MiaZeal_71, MisterCuddles_84, NormanBulbieJr_78, OldBen_82, Ruby_81, Spartacus_83, Starcevich_86, Strokeseat_82, YungJamal_98,

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

-

Summary by start number:

Start 13:

- Found in 12 of 141 (8.5%) of genes in pham
- Manual Annotations of this start: 1 of 136
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Spartacus_83 (F1),

Start 15:

- Found in 2 of 141 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 136
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Geralt_78 (F1),

Start 19:

- Found in 22 of 141 (15.6%) of genes in pham
- Manual Annotations of this start: 5 of 136
- Called 22.7% of time when present
- Phage (with cluster) where this start called: Girr_83 (F1), MisterCuddles_84 (F1), OldBen_82 (F1), Ruby_81 (F1), Starcevich_86 (F1),

Start 23:

- Found in 106 of 141 (75.2%) of genes in pham
- Manual Annotations of this start: 8 of 136
- Called 7.5% of time when present
- Phage (with cluster) where this start called: Corndog_97 (O), Karhdo_81 (F1), Koella_72 (F1), Mandlovu_82 (F1), MiaZeal_71 (J), NormanBulbieJr_78 (F1), Strokeseat_82 (F1), YungJamal_98 (O),

Start 24:

- Found in 141 of 141 (100.0%) of genes in pham
- Manual Annotations of this start: 121 of 136
- Called 89.4% of time when present
- Phage (with cluster) where this start called: Alexphander_88 (F1), Ariel_70 (J), BobaPhett_85 (F1), BodEinwohner17_92 (F1), Bora_96 (O), Brocalys_75 (F1), Burwell21_79 (F1), Cabrinians_81 (F1), CaptainTrips_85 (F1), Catdawg_98 (O), Che9d_95 (F2), Cornucopia_82 (F1), Crumble_80 (F1), DaWorst_84 (F1), Daenerys_84 (F1), Deb65_78 (F1), Demsculpinboyz_92 (F2), DillTech15_89 (F1), Doomphist_89 (F1), Eish_89 (F1), Empress_84 (F1), Eradicator_77 (F1), Estave1_89 (F1), Familton_98 (O), Fancypants_90 (F1), Fastidio_82 (F1), Flathead_86 (F1), FreddyB_93 (F1), GUmbie_83 (F1), Galactic_83 (F1), GigiOuiOui_81 (F1), Gonephishing_70 (J), Gorge_83 (F1), Hades_82 (F1), Harley_86 (F1), Hegedechwinu_84 (F1), Hlubikazi_82 (F1), Ibhubesi_84 (F1), Idergollasper_99 (O), JalFarm20_91 (F1), James_87 (F1), Jarcob_86 (F1), Jinglebell_89 (F1), Juice456_79

(F1), Juice456_84 (F1), KashFlow_65 (J), Kersh_84 (F1), Kimberlium_88 (F1), KingMidas_85 (F1), Krili_99 (O), KristaRAM_83 (F1), LastJedi_75 (F1), Leozinho_83 (F1), LilMoolah_85 (F1), LilSpotty_72 (singleton), LittleE_73 (J), Lizziana_86 (F1), Llama_91 (F1), LunaStella_81 (F4), MadMen_80 (F1), MadMen_90 (F1), Mantra_83 (F1), Maravista_82 (F1), Mattes_83 (F1), MilleniumForce_85 (F1), MinionDave_81 (F1), Modragons_89 (F1), Moonbeam_84 (F1), Mova_87 (F1), Ms6_85 (F1), Nimbo_77 (F1), Nitzel_79 (F1), Nivrat_83 (F1), Ochi17_90 (F1), OfUltron_92 (F1), OgoPogo_90 (F1), OlympiaSaint_86 (F1), Omega_76 (J), Ovechkin_90 (F1), PHappiness_85 (F1), Pacc40_74 (F1), Phanphagia_85 (F1), Phasih_80 (F1), Phoebus_73 (J), Pippy_80 (F1), Poenanya_89 (F1), Polka14_90 (F1), PopTart_78 (F1), Porcelain_70 (J), Priscilla_80 (F1), QuickMath_81 (F1), QuickMath_86 (F1), Radiance_81 (F1), Ramsey_87 (F1), Renaud18_94 (F4), RitaG_85 (F1), RockyHorror_89 (F1), Royals2015_87 (F1), Ryadel_100 (O), Saal_81 (F1), Sabbb_84 (F1), SassyB_78 (F1), SchoolBus_96 (O), Scottish_84 (F1), Seabastian_92 (F1), Seagreen_85 (F1), Shauna1_84 (F1), ShiLan_86 (F1), Shida_99 (O), ShroomBoi_83 (F1), SiSi_82 (F1), SimranZ1_84 (F1), Soul22_85 (F2), Spoonbill_82 (F1), Squint_71 (J), Stap_79 (F1), SwagPiggett_86 (F1), TChen_83 (F4), TelAviv_94 (O), Tootsieroll_81 (F1), VRedHorse_81 (F1), Veteran_78 (F1), Wachhund_82 (F1), Whouxphf_82 (F1), Zerg_85 (F1), Zizzle_87 (F1),

Summary by clusters:

There are 6 clusters represented in this pham: F1, F2, F4, J, singleton, O,

Info for manual annotations of cluster F1:

- Start number 13 was manually annotated 1 time for cluster F1.
- Start number 15 was manually annotated 1 time for cluster F1.
- Start number 19 was manually annotated 5 times for cluster F1.
- Start number 23 was manually annotated 5 times for cluster F1.
- Start number 24 was manually annotated 98 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 24 was manually annotated 3 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 24 was manually annotated 3 times for cluster F4.

Info for manual annotations of cluster J:

- Start number 23 was manually annotated 1 time for cluster J.
- Start number 24 was manually annotated 7 times for cluster J.

Info for manual annotations of cluster O:

- Start number 23 was manually annotated 2 times for cluster O.
- Start number 24 was manually annotated 9 times for cluster O.

Gene Information:

Gene: Alexphander_88 Start: 51365, Stop: 51577, Start Num: 24

Candidate Starts for Alexphander_88:

(Start: 19 @51335 has 5 MA's), (22, 51344), (Start: 24 @51365 has 121 MA's), (25, 51479), (30, 51545),

Gene: Ariel_70 Start: 45586, Stop: 45371, Start Num: 24

Candidate Starts for Ariel_70:

(Start: 23 @45598 has 8 MA's), (Start: 24 @45586 has 121 MA's), (27, 45436), (31, 45385),

Gene: BobaPhett_85 Start: 51889, Stop: 52101, Start Num: 24

Candidate Starts for BobaPhett_85:

(Start: 23 @51877 has 8 MA's), (Start: 24 @51889 has 121 MA's), (25, 52003),

Gene: BodEinwohner17_92 Start: 52397, Stop: 52612, Start Num: 24

Candidate Starts for BodEinwohner17_92:

(Start: 23 @52385 has 8 MA's), (Start: 24 @52397 has 121 MA's), (25, 52511), (30, 52577), (31, 52598),

Gene: Bora_96 Start: 61511, Stop: 61230, Start Num: 24

Candidate Starts for Bora_96:

(Start: 24 @61511 has 121 MA's), (25, 61397), (26, 61394),

Gene: Brocalys_75 Start: 47369, Stop: 47581, Start Num: 24

Candidate Starts for Brocalys_75:

(Start: 23 @47357 has 8 MA's), (Start: 24 @47369 has 121 MA's), (25, 47483),

Gene: Burwell21_79 Start: 49655, Stop: 49867, Start Num: 24

Candidate Starts for Burwell21_79:

(Start: 23 @49643 has 8 MA's), (Start: 24 @49655 has 121 MA's), (25, 49769),

Gene: Cabrinians_81 Start: 49289, Stop: 49501, Start Num: 24

Candidate Starts for Cabrinians_81:

(Start: 23 @49277 has 8 MA's), (Start: 24 @49289 has 121 MA's), (25, 49403),

Gene: CaptainTrips_85 Start: 49683, Stop: 49898, Start Num: 24

Candidate Starts for CaptainTrips_85:

(Start: 23 @49671 has 8 MA's), (Start: 24 @49683 has 121 MA's), (25, 49797), (31, 49884),

Gene: Catdawg_98 Start: 61781, Stop: 61500, Start Num: 24

Candidate Starts for Catdawg_98:

(Start: 24 @61781 has 121 MA's), (25, 61667), (26, 61664), (30, 61601),

Gene: Che9d_95 Start: 49873, Stop: 50085, Start Num: 24

Candidate Starts for Che9d_95:

(12, 49807), (14, 49813), (Start: 23 @49861 has 8 MA's), (Start: 24 @49873 has 121 MA's), (25, 49987), (30, 50053),

Gene: Corndog_97 Start: 60487, Stop: 60185, Start Num: 23

Candidate Starts for Corndog_97:

(Start: 23 @60487 has 8 MA's), (Start: 24 @60475 has 121 MA's), (25, 60361), (30, 60295),

Gene: Cornucopia_82 Start: 47816, Stop: 48031, Start Num: 24

Candidate Starts for Cornucopia_82:

(Start: 13 @47747 has 1 MA's), (16, 47765), (Start: 23 @47804 has 8 MA's), (Start: 24 @47816 has 121 MA's), (25, 47930), (31, 48017),

Gene: Crumble_80 Start: 46014, Stop: 46226, Start Num: 24

Candidate Starts for Crumble_80:

(Start: 23 @46002 has 8 MA's), (Start: 24 @46014 has 121 MA's), (25, 46128),

Gene: DaWorst_84 Start: 49289, Stop: 49501, Start Num: 24

Candidate Starts for DaWorst_84:

(Start: 23 @49277 has 8 MA's), (Start: 24 @49289 has 121 MA's), (25, 49403), (29, 49457), (30, 49469),

Gene: Daenerys_84 Start: 51398, Stop: 51610, Start Num: 24

Candidate Starts for Daenerys_84:

(Start: 19 @51368 has 5 MA's), (22, 51377), (Start: 24 @51398 has 121 MA's), (25, 51512), (30, 51578),

Gene: Deb65_78 Start: 49121, Stop: 49333, Start Num: 24

Candidate Starts for Deb65_78:

(1, 48785), (2, 48842), (6, 48947), (Start: 15 @49067 has 1 MA's), (22, 49100), (Start: 24 @49121 has 121 MA's), (25, 49235), (30, 49301),

Gene: Demsculpinboyz_92 Start: 47760, Stop: 47972, Start Num: 24

Candidate Starts for Demsculpinboyz_92:

(21, 47736), (Start: 23 @47748 has 8 MA's), (Start: 24 @47760 has 121 MA's), (25, 47874), (30, 47940),

Gene: DillTech15_89 Start: 49508, Stop: 49720, Start Num: 24

Candidate Starts for DillTech15_89:

(Start: 23 @49496 has 8 MA's), (Start: 24 @49508 has 121 MA's), (25, 49622), (30, 49688),

Gene: Doomphist_89 Start: 51084, Stop: 51296, Start Num: 24

Candidate Starts for Doomphist_89:

(Start: 23 @51072 has 8 MA's), (Start: 24 @51084 has 121 MA's), (25, 51198), (30, 51264),

Gene: Eish_89 Start: 51338, Stop: 51553, Start Num: 24

Candidate Starts for Eish_89:

(Start: 24 @51338 has 121 MA's), (25, 51452), (30, 51518), (31, 51539),

Gene: Empress_84 Start: 49895, Stop: 50110, Start Num: 24

Candidate Starts for Empress_84:

(Start: 23 @49883 has 8 MA's), (Start: 24 @49895 has 121 MA's), (25, 50009), (30, 50075), (31, 50096),

Gene: Eradicator_77 Start: 48309, Stop: 48521, Start Num: 24

Candidate Starts for Eradicator_77:

(Start: 23 @48297 has 8 MA's), (Start: 24 @48309 has 121 MA's), (25, 48423), (29, 48477), (30, 48489),

Gene: Estave1_89 Start: 52609, Stop: 52821, Start Num: 24

Candidate Starts for Estave1_89:

(4, 52426), (8, 52441), (10, 52495), (11, 52501), (Start: 23 @52597 has 8 MA's), (Start: 24 @52609 has 121 MA's), (25, 52723),

Gene: Familton_98 Start: 61193, Stop: 60903, Start Num: 24

Candidate Starts for Familton_98:

(Start: 24 @61193 has 121 MA's), (25, 61079), (26, 61076), (30, 61013),

Gene: Fancypants_90 Start: 51627, Stop: 51839, Start Num: 24
Candidate Starts for Fancypants_90:
(Start: 13 @51558 has 1 MA's), (16, 51576), (21, 51603), (Start: 23 @51615 has 8 MA's), (Start: 24 @51627 has 121 MA's), (25, 51741), (30, 51807),

Gene: Fastidio_82 Start: 46774, Stop: 46989, Start Num: 24
Candidate Starts for Fastidio_82:
(Start: 19 @46744 has 5 MA's), (22, 46753), (Start: 24 @46774 has 121 MA's), (25, 46888), (31, 46975),

Gene: Flathead_86 Start: 50171, Stop: 50386, Start Num: 24
Candidate Starts for Flathead_86:
(Start: 23 @50159 has 8 MA's), (Start: 24 @50171 has 121 MA's), (25, 50285), (31, 50372),

Gene: FreddyB_93 Start: 50936, Stop: 51148, Start Num: 24
Candidate Starts for FreddyB_93:
(Start: 23 @50924 has 8 MA's), (Start: 24 @50936 has 121 MA's), (25, 51050),

Gene: GUmbie_83 Start: 50124, Stop: 50336, Start Num: 24
Candidate Starts for GUmbie_83:
(Start: 19 @50094 has 5 MA's), (22, 50103), (Start: 24 @50124 has 121 MA's), (25, 50238), (30, 50304),

Gene: Galactic_83 Start: 49153, Stop: 49368, Start Num: 24
Candidate Starts for Galactic_83:
(Start: 13 @49084 has 1 MA's), (16, 49102), (21, 49129), (Start: 23 @49141 has 8 MA's), (Start: 24 @49153 has 121 MA's), (25, 49267), (27, 49303), (31, 49354),

Gene: Geralt_78 Start: 49065, Stop: 49331, Start Num: 15
Candidate Starts for Geralt_78:
(1, 48783), (2, 48840), (6, 48945), (Start: 15 @49065 has 1 MA's), (22, 49098), (Start: 24 @49119 has 121 MA's), (25, 49233), (30, 49299),

Gene: GigiOuiOui_81 Start: 49517, Stop: 49729, Start Num: 24
Candidate Starts for GigiOuiOui_81:
(Start: 19 @49487 has 5 MA's), (22, 49496), (Start: 24 @49517 has 121 MA's), (25, 49631), (30, 49697),

Gene: Girr_83 Start: 50486, Stop: 50728, Start Num: 19
Candidate Starts for Girr_83:
(Start: 19 @50486 has 5 MA's), (22, 50495), (Start: 24 @50516 has 121 MA's), (25, 50630), (30, 50696),

Gene: Gonephishing_70 Start: 46888, Stop: 46673, Start Num: 24
Candidate Starts for Gonephishing_70:
(Start: 23 @46900 has 8 MA's), (Start: 24 @46888 has 121 MA's), (25, 46774), (31, 46687),

Gene: Gorge_83 Start: 50563, Stop: 50775, Start Num: 24
Candidate Starts for Gorge_83:
(Start: 23 @50551 has 8 MA's), (Start: 24 @50563 has 121 MA's), (25, 50677),

Gene: Hades_82 Start: 47481, Stop: 47696, Start Num: 24

Candidate Starts for Hades_82:

(Start: 23 @47469 has 8 MA's), (Start: 24 @47481 has 121 MA's), (25, 47595), (30, 47661), (31, 47682),

Gene: Harley_86 Start: 50040, Stop: 50252, Start Num: 24

Candidate Starts for Harley_86:

(Start: 23 @50028 has 8 MA's), (Start: 24 @50040 has 121 MA's), (25, 50154),

Gene: Hegedechwinu_84 Start: 48698, Stop: 48913, Start Num: 24

Candidate Starts for Hegedechwinu_84:

(Start: 23 @48686 has 8 MA's), (Start: 24 @48698 has 121 MA's), (25, 48812), (30, 48878), (31, 48899),

Gene: Hlubikazi_82 Start: 47896, Stop: 48108, Start Num: 24

Candidate Starts for Hlubikazi_82:

(Start: 23 @47884 has 8 MA's), (Start: 24 @47896 has 121 MA's), (25, 48010), (30, 48076),

Gene: Ibhubesi_84 Start: 48421, Stop: 48633, Start Num: 24

Candidate Starts for Ibhubesi_84:

(Start: 23 @48409 has 8 MA's), (Start: 24 @48421 has 121 MA's), (25, 48535), (30, 48601),

Gene: Idergollasper_99 Start: 61741, Stop: 61451, Start Num: 24

Candidate Starts for Idergollasper_99:

(Start: 24 @61741 has 121 MA's), (25, 61627), (26, 61624), (30, 61561),

Gene: JalFarm20_91 Start: 50715, Stop: 50930, Start Num: 24

Candidate Starts for JalFarm20_91:

(Start: 23 @50703 has 8 MA's), (Start: 24 @50715 has 121 MA's), (25, 50829), (30, 50895), (31, 50916),

Gene: James_87 Start: 51897, Stop: 52112, Start Num: 24

Candidate Starts for James_87:

(Start: 23 @51885 has 8 MA's), (Start: 24 @51897 has 121 MA's), (25, 52011), (30, 52077), (31, 52098),

Gene: Jaracob_86 Start: 51496, Stop: 51711, Start Num: 24

Candidate Starts for Jaracob_86:

(Start: 23 @51484 has 8 MA's), (Start: 24 @51496 has 121 MA's), (25, 51610), (30, 51676), (31, 51697),

Gene: Jinglebell_89 Start: 50588, Stop: 50800, Start Num: 24

Candidate Starts for Jinglebell_89:

(12, 50522), (14, 50528), (Start: 23 @50576 has 8 MA's), (Start: 24 @50588 has 121 MA's), (25, 50702), (30, 50768),

Gene: Juice456_84 Start: 50025, Stop: 50237, Start Num: 24

Candidate Starts for Juice456_84:

(Start: 19 @49995 has 5 MA's), (22, 50004), (Start: 24 @50025 has 121 MA's), (25, 50139), (30, 50205),

Gene: Juice456_79 Start: 48482, Stop: 48697, Start Num: 24

Candidate Starts for Juice456_79:

(3, 48296), (7, 48308), (9, 48341), (Start: 23 @48470 has 8 MA's), (Start: 24 @48482 has 121 MA's), (25, 48596), (30, 48662), (31, 48683),

Gene: Karhdo_81 Start: 47891, Stop: 48115, Start Num: 23

Candidate Starts for Karhdo_81:

(5, 47726), (Start: 13 @47834 has 1 MA's), (16, 47852), (21, 47879), (Start: 23 @47891 has 8 MA's), (Start: 24 @47903 has 121 MA's), (25, 48017), (30, 48083),

Gene: KashFlow_65 Start: 44756, Stop: 44541, Start Num: 24

Candidate Starts for KashFlow_65:

(Start: 23 @44768 has 8 MA's), (Start: 24 @44756 has 121 MA's), (25, 44642), (30, 44576), (31, 44555),

Gene: Kersh_84 Start: 51089, Stop: 51304, Start Num: 24

Candidate Starts for Kersh_84:

(5, 50912), (Start: 13 @51020 has 1 MA's), (16, 51038), (21, 51065), (Start: 23 @51077 has 8 MA's), (Start: 24 @51089 has 121 MA's), (25, 51203), (27, 51239), (31, 51290),

Gene: Kimberlium_88 Start: 50125, Stop: 50337, Start Num: 24

Candidate Starts for Kimberlium_88:

(Start: 19 @50095 has 5 MA's), (22, 50104), (Start: 24 @50125 has 121 MA's), (25, 50239), (30, 50305),

Gene: KingMidas_85 Start: 50310, Stop: 50522, Start Num: 24

Candidate Starts for KingMidas_85:

(Start: 23 @50298 has 8 MA's), (Start: 24 @50310 has 121 MA's), (25, 50424), (30, 50490),

Gene: Koella_72 Start: 45176, Stop: 45400, Start Num: 23

Candidate Starts for Koella_72:

(Start: 23 @45176 has 8 MA's), (Start: 24 @45188 has 121 MA's), (25, 45302),

Gene: Krili_99 Start: 61290, Stop: 61009, Start Num: 24

Candidate Starts for Krili_99:

(Start: 24 @61290 has 121 MA's), (25, 61176), (26, 61173), (30, 61110),

Gene: KristaRAM_83 Start: 49242, Stop: 49457, Start Num: 24

Candidate Starts for KristaRAM_83:

(Start: 23 @49230 has 8 MA's), (Start: 24 @49242 has 121 MA's), (25, 49356), (30, 49422), (31, 49443),

Gene: LastJedi_75 Start: 47763, Stop: 47975, Start Num: 24

Candidate Starts for LastJedi_75:

(Start: 23 @47751 has 8 MA's), (Start: 24 @47763 has 121 MA's), (25, 47877),

Gene: Leozinho_83 Start: 47566, Stop: 47778, Start Num: 24

Candidate Starts for Leozinho_83:

(Start: 23 @47554 has 8 MA's), (Start: 24 @47566 has 121 MA's), (25, 47680), (30, 47746),

Gene: LilMoolah_85 Start: 50703, Stop: 50915, Start Num: 24

Candidate Starts for LilMoolah_85:

(Start: 23 @50691 has 8 MA's), (Start: 24 @50703 has 121 MA's), (25, 50817), (29, 50871), (30, 50883),

Gene: LilSpotty_72 Start: 43510, Stop: 43731, Start Num: 24
Candidate Starts for LilSpotty_72:
(Start: 24 @43510 has 121 MA's), (25, 43624), (29, 43678),

Gene: LittleE_73 Start: 49206, Stop: 48991, Start Num: 24
Candidate Starts for LittleE_73:
(Start: 23 @49218 has 8 MA's), (Start: 24 @49206 has 121 MA's), (25, 49092), (30, 49026), (31, 49005),

Gene: Lizziana_86 Start: 51012, Stop: 51224, Start Num: 24
Candidate Starts for Lizziana_86:
(Start: 23 @51000 has 8 MA's), (Start: 24 @51012 has 121 MA's), (25, 51126),

Gene: Llama_91 Start: 50444, Stop: 50656, Start Num: 24
Candidate Starts for Llama_91:
(12, 50378), (14, 50384), (Start: 23 @50432 has 8 MA's), (Start: 24 @50444 has 121 MA's), (25, 50558), (30, 50624),

Gene: LunaStella_81 Start: 48822, Stop: 49034, Start Num: 24
Candidate Starts for LunaStella_81:
(Start: 23 @48810 has 8 MA's), (Start: 24 @48822 has 121 MA's), (25, 48936), (29, 48990), (30, 49002),

Gene: MadMen_90 Start: 50577, Stop: 50789, Start Num: 24
Candidate Starts for MadMen_90:
(17, 50532), (21, 50553), (Start: 23 @50565 has 8 MA's), (Start: 24 @50577 has 121 MA's), (25, 50691), (27, 50727), (30, 50757),

Gene: MadMen_80 Start: 47747, Stop: 47962, Start Num: 24
Candidate Starts for MadMen_80:
(5, 47570), (Start: 13 @47678 has 1 MA's), (16, 47696), (21, 47723), (Start: 23 @47735 has 8 MA's), (Start: 24 @47747 has 121 MA's), (25, 47861), (27, 47897), (31, 47948),

Gene: Mandlovu_82 Start: 47826, Stop: 48050, Start Num: 23
Candidate Starts for Mandlovu_82:
(Start: 23 @47826 has 8 MA's), (Start: 24 @47838 has 121 MA's), (25, 47952), (30, 48018),

Gene: Mantra_83 Start: 50088, Stop: 50300, Start Num: 24
Candidate Starts for Mantra_83:
(Start: 19 @50058 has 5 MA's), (22, 50067), (Start: 24 @50088 has 121 MA's), (25, 50202), (30, 50268),

Gene: Maravista_82 Start: 51620, Stop: 51832, Start Num: 24
Candidate Starts for Maravista_82:
(Start: 23 @51608 has 8 MA's), (Start: 24 @51620 has 121 MA's), (25, 51734),

Gene: Mattes_83 Start: 50629, Stop: 50844, Start Num: 24
Candidate Starts for Mattes_83:
(Start: 23 @50617 has 8 MA's), (Start: 24 @50629 has 121 MA's), (25, 50743), (30, 50809), (31, 50830),

Gene: MiaZeal_71 Start: 46270, Stop: 46043, Start Num: 23
Candidate Starts for MiaZeal_71:

(Start: 23 @46270 has 8 MA's), (Start: 24 @46258 has 121 MA's), (27, 46108), (31, 46057),

Gene: MilleniumForce_85 Start: 50730, Stop: 50945, Start Num: 24

Candidate Starts for MilleniumForce_85:

(Start: 23 @50718 has 8 MA's), (Start: 24 @50730 has 121 MA's), (25, 50844), (30, 50910), (31, 50931),

Gene: MinionDave_81 Start: 49683, Stop: 49898, Start Num: 24

Candidate Starts for MinionDave_81:

(Start: 23 @49671 has 8 MA's), (Start: 24 @49683 has 121 MA's), (25, 49797), (31, 49884),

Gene: MisterCuddles_84 Start: 50486, Stop: 50728, Start Num: 19

Candidate Starts for MisterCuddles_84:

(Start: 19 @50486 has 5 MA's), (22, 50495), (Start: 24 @50516 has 121 MA's), (25, 50630), (30, 50696),

Gene: Modragons_89 Start: 50432, Stop: 50644, Start Num: 24

Candidate Starts for Modragons_89:

(12, 50366), (14, 50372), (Start: 23 @50420 has 8 MA's), (Start: 24 @50432 has 121 MA's), (25, 50546), (30, 50612),

Gene: Moonbeam_84 Start: 49977, Stop: 50192, Start Num: 24

Candidate Starts for Moonbeam_84:

(Start: 23 @49965 has 8 MA's), (Start: 24 @49977 has 121 MA's), (25, 50091), (30, 50157), (31, 50178),

Gene: Mova_87 Start: 50275, Stop: 50490, Start Num: 24

Candidate Starts for Mova_87:

(Start: 23 @50263 has 8 MA's), (Start: 24 @50275 has 121 MA's), (25, 50389), (31, 50476),

Gene: Ms6_85 Start: 46726, Stop: 46941, Start Num: 24

Candidate Starts for Ms6_85:

(Start: 23 @46714 has 8 MA's), (Start: 24 @46726 has 121 MA's), (25, 46840), (30, 46906), (31, 46927),

Gene: Nimbo_77 Start: 49121, Stop: 49333, Start Num: 24

Candidate Starts for Nimbo_77:

(Start: 19 @49091 has 5 MA's), (22, 49100), (Start: 24 @49121 has 121 MA's), (25, 49235), (30, 49301),

Gene: Nitzel_79 Start: 47187, Stop: 47399, Start Num: 24

Candidate Starts for Nitzel_79:

(21, 47163), (Start: 23 @47175 has 8 MA's), (Start: 24 @47187 has 121 MA's), (25, 47301), (29, 47355), (30, 47367),

Gene: Nivrat_83 Start: 50576, Stop: 50788, Start Num: 24

Candidate Starts for Nivrat_83:

(Start: 23 @50564 has 8 MA's), (Start: 24 @50576 has 121 MA's), (25, 50690), (29, 50744), (30, 50756),

Gene: NormanBulbieJr_78 Start: 49190, Stop: 49414, Start Num: 23

Candidate Starts for NormanBulbieJr_78:

(Start: 23 @49190 has 8 MA's), (Start: 24 @49202 has 121 MA's), (25, 49316),

Gene: Ochi17_90 Start: 50039, Stop: 50251, Start Num: 24

Candidate Starts for Ochi17_90:

(12, 49973), (14, 49979), (Start: 23 @50027 has 8 MA's), (Start: 24 @50039 has 121 MA's), (25, 50153), (30, 50219),

Gene: OfUltron_92 Start: 50588, Stop: 50800, Start Num: 24

Candidate Starts for OfUltron_92:

(12, 50522), (14, 50528), (Start: 23 @50576 has 8 MA's), (Start: 24 @50588 has 121 MA's), (25, 50702), (30, 50768),

Gene: Ogopogo_90 Start: 49845, Stop: 50057, Start Num: 24

Candidate Starts for Ogopogo_90:

(Start: 23 @49833 has 8 MA's), (Start: 24 @49845 has 121 MA's), (25, 49959), (29, 50013), (30, 50025),

Gene: OldBen_82 Start: 50483, Stop: 50725, Start Num: 19

Candidate Starts for OldBen_82:

(Start: 19 @50483 has 5 MA's), (22, 50492), (Start: 24 @50513 has 121 MA's), (25, 50627), (30, 50693),

Gene: OlympiaSaint_86 Start: 50839, Stop: 51054, Start Num: 24

Candidate Starts for OlympiaSaint_86:

(Start: 23 @50827 has 8 MA's), (Start: 24 @50839 has 121 MA's), (25, 50953), (30, 51019), (31, 51040),

Gene: Omega_76 Start: 50941, Stop: 50726, Start Num: 24

Candidate Starts for Omega_76:

(Start: 23 @50953 has 8 MA's), (Start: 24 @50941 has 121 MA's), (25, 50827), (30, 50761), (31, 50740),

Gene: Ovechkin_90 Start: 51287, Stop: 51499, Start Num: 24

Candidate Starts for Ovechkin_90:

(21, 51263), (Start: 23 @51275 has 8 MA's), (Start: 24 @51287 has 121 MA's), (25, 51401), (30, 51467),

Gene: PHappiness_85 Start: 51342, Stop: 51554, Start Num: 24

Candidate Starts for PHappiness_85:

(Start: 19 @51312 has 5 MA's), (22, 51321), (Start: 24 @51342 has 121 MA's), (25, 51456), (30, 51522),

Gene: Pacc40_74 Start: 48835, Stop: 49050, Start Num: 24

Candidate Starts for Pacc40_74:

(Start: 13 @48766 has 1 MA's), (16, 48784), (Start: 23 @48823 has 8 MA's), (Start: 24 @48835 has 121 MA's), (25, 48949), (31, 49036),

Gene: Phanphagia_85 Start: 50836, Stop: 51051, Start Num: 24

Candidate Starts for Phanphagia_85:

(Start: 23 @50824 has 8 MA's), (Start: 24 @50836 has 121 MA's), (25, 50950), (30, 51016), (31, 51037),

Gene: Phasih_80 Start: 48522, Stop: 48737, Start Num: 24

Candidate Starts for Phasih_80:

(Start: 19 @48492 has 5 MA's), (22, 48501), (Start: 24 @48522 has 121 MA's), (25, 48636), (30, 48702), (31, 48723),

Gene: Phoebus_73 Start: 51132, Stop: 50917, Start Num: 24

Candidate Starts for Phoebus_73:

(Start: 23 @51144 has 8 MA's), (Start: 24 @51132 has 121 MA's), (25, 51018), (30, 50952), (31, 50931),

Gene: Pippy_80 Start: 48672, Stop: 48884, Start Num: 24

Candidate Starts for Pippy_80:

(Start: 23 @48660 has 8 MA's), (Start: 24 @48672 has 121 MA's), (25, 48786),

Gene: Poenanya_89 Start: 51084, Stop: 51296, Start Num: 24

Candidate Starts for Poenanya_89:

(Start: 23 @51072 has 8 MA's), (Start: 24 @51084 has 121 MA's), (25, 51198), (30, 51264),

Gene: Polka14_90 Start: 51874, Stop: 52086, Start Num: 24

Candidate Starts for Polka14_90:

(Start: 23 @51862 has 8 MA's), (Start: 24 @51874 has 121 MA's), (25, 51988), (30, 52054),

Gene: PopTart_78 Start: 47438, Stop: 47650, Start Num: 24

Candidate Starts for PopTart_78:

(Start: 23 @47426 has 8 MA's), (Start: 24 @47438 has 121 MA's), (25, 47552),

Gene: Porcelain_70 Start: 46258, Stop: 46043, Start Num: 24

Candidate Starts for Porcelain_70:

(Start: 23 @46270 has 8 MA's), (Start: 24 @46258 has 121 MA's), (27, 46108), (31, 46057),

Gene: Priscilla_80 Start: 49300, Stop: 49512, Start Num: 24

Candidate Starts for Priscilla_80:

(Start: 23 @49288 has 8 MA's), (Start: 24 @49300 has 121 MA's), (25, 49414),

Gene: QuickMath_86 Start: 50377, Stop: 50589, Start Num: 24

Candidate Starts for QuickMath_86:

(Start: 19 @50347 has 5 MA's), (22, 50356), (Start: 24 @50377 has 121 MA's), (25, 50491), (30, 50557),

Gene: QuickMath_81 Start: 48834, Stop: 49049, Start Num: 24

Candidate Starts for QuickMath_81:

(3, 48648), (7, 48660), (9, 48693), (Start: 23 @48822 has 8 MA's), (Start: 24 @48834 has 121 MA's), (25, 48948), (30, 49014), (31, 49035),

Gene: Radiance_81 Start: 49618, Stop: 49830, Start Num: 24

Candidate Starts for Radiance_81:

(Start: 13 @49549 has 1 MA's), (16, 49567), (21, 49594), (Start: 23 @49606 has 8 MA's), (Start: 24 @49618 has 121 MA's), (25, 49732), (27, 49768), (30, 49798),

Gene: Ramsey_87 Start: 51517, Stop: 51732, Start Num: 24

Candidate Starts for Ramsey_87:

(Start: 23 @51505 has 8 MA's), (Start: 24 @51517 has 121 MA's), (25, 51631), (30, 51697), (31, 51718),

Gene: Renaud18_94 Start: 50921, Stop: 51130, Start Num: 24

Candidate Starts for Renaud18_94:

(Start: 23 @50909 has 8 MA's), (Start: 24 @50921 has 121 MA's), (25, 51035), (28, 51086),

Gene: RitaG_85 Start: 51144, Stop: 51356, Start Num: 24

Candidate Starts for RitaG_85:

(Start: 19 @51114 has 5 MA's), (22, 51123), (Start: 24 @51144 has 121 MA's), (25, 51258), (30, 51324),

Gene: RockyHorror_89 Start: 50134, Stop: 50343, Start Num: 24

Candidate Starts for RockyHorror_89:

(Start: 19 @50104 has 5 MA's), (22, 50113), (Start: 24 @50134 has 121 MA's), (25, 50248), (28, 50299),

Gene: Royals2015_87 Start: 48933, Stop: 49148, Start Num: 24

Candidate Starts for Royals2015_87:

(3, 48747), (7, 48759), (9, 48792), (Start: 23 @48921 has 8 MA's), (Start: 24 @48933 has 121 MA's), (25, 49047), (30, 49113), (31, 49134),

Gene: Ruby_81 Start: 50487, Stop: 50729, Start Num: 19

Candidate Starts for Ruby_81:

(Start: 19 @50487 has 5 MA's), (22, 50496), (Start: 24 @50517 has 121 MA's), (25, 50631), (30, 50697),

Gene: Ryadel_100 Start: 61792, Stop: 61511, Start Num: 24

Candidate Starts for Ryadel_100:

(Start: 24 @61792 has 121 MA's), (25, 61678), (26, 61675), (27, 61642),

Gene: Saal_81 Start: 50383, Stop: 50595, Start Num: 24

Candidate Starts for Saal_81:

(Start: 23 @50371 has 8 MA's), (Start: 24 @50383 has 121 MA's), (25, 50497),

Gene: Sabbb_84 Start: 47064, Stop: 47279, Start Num: 24

Candidate Starts for Sabbb_84:

(5, 46887), (Start: 13 @46995 has 1 MA's), (16, 47013), (21, 47040), (Start: 23 @47052 has 8 MA's), (Start: 24 @47064 has 121 MA's), (25, 47178), (27, 47214), (31, 47265),

Gene: SassyB_78 Start: 47438, Stop: 47650, Start Num: 24

Candidate Starts for SassyB_78:

(Start: 23 @47426 has 8 MA's), (Start: 24 @47438 has 121 MA's), (25, 47552),

Gene: SchoolBus_96 Start: 60910, Stop: 60620, Start Num: 24

Candidate Starts for SchoolBus_96:

(Start: 24 @60910 has 121 MA's), (25, 60796), (26, 60793), (30, 60730),

Gene: Scottish_84 Start: 49565, Stop: 49780, Start Num: 24

Candidate Starts for Scottish_84:

(21, 49541), (Start: 23 @49553 has 8 MA's), (Start: 24 @49565 has 121 MA's), (25, 49679), (30, 49745), (31, 49766),

Gene: Seabastian_92 Start: 50589, Stop: 50801, Start Num: 24

Candidate Starts for Seabastian_92:

(12, 50523), (14, 50529), (Start: 23 @50577 has 8 MA's), (Start: 24 @50589 has 121 MA's), (25, 50703), (30, 50769),

Gene: Seagreen_85 Start: 50625, Stop: 50837, Start Num: 24

Candidate Starts for Seagreen_85:

(Start: 23 @50613 has 8 MA's), (Start: 24 @50625 has 121 MA's), (25, 50739), (30, 50805),

Gene: Shauna1_84 Start: 50809, Stop: 51021, Start Num: 24

Candidate Starts for Shauna1_84:

(Start: 23 @50797 has 8 MA's), (Start: 24 @50809 has 121 MA's), (25, 50923),

Gene: ShiLan_86 Start: 52352, Stop: 52567, Start Num: 24

Candidate Starts for ShiLan_86:

(Start: 23 @52340 has 8 MA's), (Start: 24 @52352 has 121 MA's), (25, 52466), (30, 52532), (31, 52553),

Gene: Shida_99 Start: 61411, Stop: 61121, Start Num: 24

Candidate Starts for Shida_99:

(Start: 24 @61411 has 121 MA's), (25, 61297), (26, 61294), (30, 61231),

Gene: ShroomBoi_83 Start: 49778, Stop: 49990, Start Num: 24

Candidate Starts for ShroomBoi_83:

(Start: 23 @49766 has 8 MA's), (Start: 24 @49778 has 121 MA's), (25, 49892), (29, 49946), (30, 49958),

Gene: SiSi_82 Start: 49613, Stop: 49825, Start Num: 24

Candidate Starts for SiSi_82:

(Start: 19 @49583 has 5 MA's), (22, 49592), (Start: 24 @49613 has 121 MA's), (25, 49727), (30, 49793),

Gene: SimranZ1_84 Start: 49283, Stop: 49495, Start Num: 24

Candidate Starts for SimranZ1_84:

(17, 49238), (Start: 23 @49271 has 8 MA's), (Start: 24 @49283 has 121 MA's), (25, 49397), (27, 49433), (30, 49463),

Gene: Soul22_85 Start: 48128, Stop: 48340, Start Num: 24

Candidate Starts for Soul22_85:

(Start: 23 @48116 has 8 MA's), (Start: 24 @48128 has 121 MA's), (25, 48242), (29, 48296), (30, 48308),

Gene: Spartacus_83 Start: 50534, Stop: 50815, Start Num: 13

Candidate Starts for Spartacus_83:

(Start: 13 @50534 has 1 MA's), (18, 50561), (20, 50576), (Start: 23 @50591 has 8 MA's), (Start: 24 @50603 has 121 MA's), (25, 50717), (27, 50753), (30, 50783),

Gene: Spoonbill_82 Start: 48265, Stop: 48480, Start Num: 24

Candidate Starts for Spoonbill_82:

(Start: 23 @48253 has 8 MA's), (Start: 24 @48265 has 121 MA's), (25, 48379), (30, 48445), (31, 48466),

Gene: Squint_71 Start: 46377, Stop: 46162, Start Num: 24

Candidate Starts for Squint_71:

(Start: 23 @46389 has 8 MA's), (Start: 24 @46377 has 121 MA's), (27, 46227), (31, 46176),

Gene: Stap_79 Start: 47243, Stop: 47458, Start Num: 24

Candidate Starts for Stap_79:

(Start: 23 @47231 has 8 MA's), (Start: 24 @47243 has 121 MA's), (25, 47357), (30, 47423), (31, 47444),

Gene: Starcevich_86 Start: 51443, Stop: 51685, Start Num: 19

Candidate Starts for Starcevich_86:

(Start: 19 @51443 has 5 MA's), (22, 51452), (Start: 24 @51473 has 121 MA's), (25, 51587), (30, 51653),

Gene: Strokeseat_82 Start: 47883, Stop: 48107, Start Num: 23

Candidate Starts for Strokeseat_82:

(Start: 23 @47883 has 8 MA's), (Start: 24 @47895 has 121 MA's), (25, 48009), (30, 48075),

Gene: SwagPigglett_86 Start: 51519, Stop: 51731, Start Num: 24

Candidate Starts for SwagPigglett_86:

(Start: 23 @51507 has 8 MA's), (Start: 24 @51519 has 121 MA's), (25, 51633),

Gene: TChen_83 Start: 50773, Stop: 50985, Start Num: 24

Candidate Starts for TChen_83:

(Start: 23 @50761 has 8 MA's), (Start: 24 @50773 has 121 MA's), (25, 50887), (29, 50941), (30, 50953),

Gene: TelAviv_94 Start: 61136, Stop: 60855, Start Num: 24

Candidate Starts for TelAviv_94:

(Start: 24 @61136 has 121 MA's), (25, 61022), (26, 61019), (30, 60956),

Gene: Tootsieroll_81 Start: 50559, Stop: 50771, Start Num: 24

Candidate Starts for Tootsieroll_81:

(Start: 23 @50547 has 8 MA's), (Start: 24 @50559 has 121 MA's), (25, 50673), (30, 50739),

Gene: VRedHorse_81 Start: 46634, Stop: 46849, Start Num: 24

Candidate Starts for VRedHorse_81:

(Start: 13 @46565 has 1 MA's), (16, 46583), (Start: 23 @46622 has 8 MA's), (Start: 24 @46634 has 121 MA's), (25, 46748), (31, 46835),

Gene: Veteran_78 Start: 49481, Stop: 49693, Start Num: 24

Candidate Starts for Veteran_78:

(Start: 19 @49451 has 5 MA's), (22, 49460), (Start: 24 @49481 has 121 MA's), (25, 49595), (30, 49661),

Gene: Wachhund_82 Start: 47237, Stop: 47449, Start Num: 24

Candidate Starts for Wachhund_82:

(5, 47060), (Start: 13 @47168 has 1 MA's), (16, 47186), (Start: 23 @47225 has 8 MA's), (Start: 24 @47237 has 121 MA's), (25, 47351),

Gene: Whouxphf_82 Start: 49690, Stop: 49902, Start Num: 24

Candidate Starts for Whouxphf_82:

(Start: 23 @49678 has 8 MA's), (Start: 24 @49690 has 121 MA's), (27, 49840),

Gene: YungJamal_98 Start: 61261, Stop: 60959, Start Num: 23

Candidate Starts for YungJamal_98:

(Start: 23 @61261 has 8 MA's), (Start: 24 @61249 has 121 MA's), (25, 61135), (30, 61069),

Gene: Zerg_85 Start: 49944, Stop: 50156, Start Num: 24

Candidate Starts for Zerg_85:

(Start: 19 @49914 has 5 MA's), (22, 49923), (Start: 24 @49944 has 121 MA's), (25, 50058), (30, 50124),

Gene: Zizzle_87 Start: 51475, Stop: 51690, Start Num: 24

Candidate Starts for Zizzle_87:

(Start: 23 @51463 has 8 MA's), (Start: 24 @51475 has 121 MA's), (25, 51589), (30, 51655), (31, 51676),