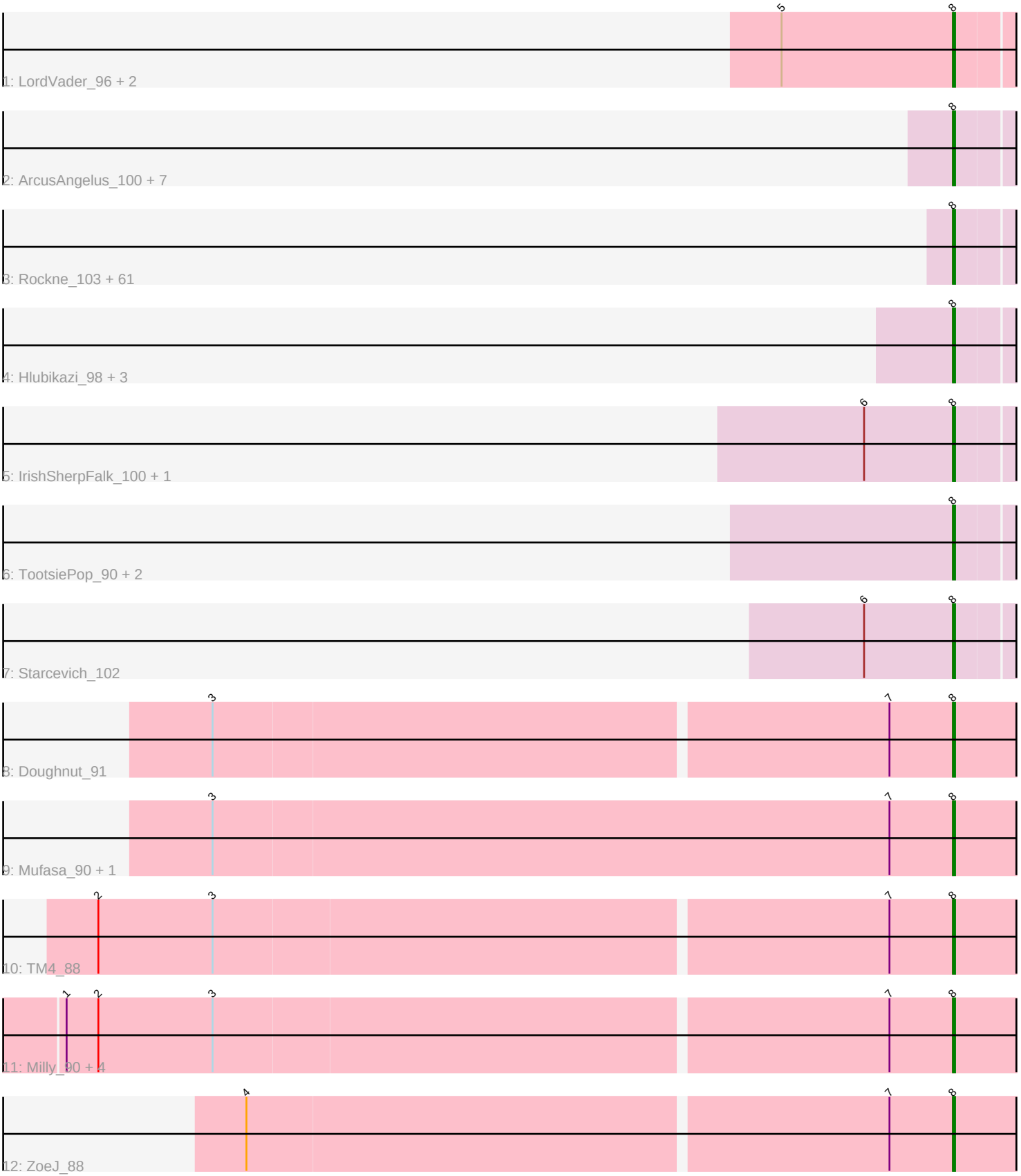




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 278072 Report

This analysis was run 02/07/26 on database version 634.

Pham number 278072 has 93 members, 4 are drafts.

Phages represented in each track:

- Track 1 : LordVader_96, Squirty_99, MulchSalad_102
- Track 2 : ArcusAngelus_100, Galactic_104, QuickMath_101, Chevrolet_104, MadMen_105, Hades_97, EleanorGeorge_104, MinionDave_98
- Track 3 : Rockne_103, RitaG_99, LilMoolah_103, BuzzLyseyear_107, Radiance_98, BodEinwohner17_110, Mattes_101, Gorge_99, Cheesepuff_105, Saal_98, Madiba_99, Moonbeam_103, Donkeykong_106, Empress_100, Ogopogo_104, Nivrat_100, Dorothy_101, Juice456_99, Latretium_103, Sassafras_102, Inventum_98, Krakatau_93, Peridot_103, Plumbus_99, RedBird_101, ByChance_91, Alexphander_101, Fancypants_107, Doomphist_105, DillTech15_106, KingMidas_100, ShiLan_103, Yorick_96, Nimbo_92, Llij_95, JoeyJr_103, Leperchaun_102, PHappiness_100, BlueCrab_103, Deb65_93, DRBy19_100, Spoonbill_100, Jacob_103, Spartacus_107, Totinger_103, Poenanya_104, Gandolph_100, TDanisky_108, Minnie_95, Polka14_104, OldBen_97, GUmbie_99, Pollywog_102, Daenerys_98, Drago_99, Rialto_105, PMC_99, Geralt_93, DaddyRickover_102, Scottish_100, Sparkdehlily_107, Estave1_108
- Track 4 : Hlubikazi_98, Mandlovu_98, Ramsey_105, Strokeseat_98
- Track 5 : IrishSherpFalk_100, WillSterrel_98
- Track 6 : TootsiePop_90, Misha28_90, Piper2020_95
- Track 7 : Starceвич_102
- Track 8 : Doughnut_91
- Track 9 : Mufasa_90, BoostSeason_90
- Track 10 : TM4_88
- Track 11 : Milly_90, Strobilo_91, DismalFunk_90, DismalStressor_90, Findley_90
- Track 12 : ZoeJ_88

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

The start number called the most often in the published annotations is 8, it was called in 89 of the 89 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alexphander_101, ArcusAngelus_100, BlueCrab_103, BodEinwohner17_110, BoostSeason_90, BuzzLyseyear_107, ByChance_91, Cheesepuff_105, Chevrolet_104, DRBy19_100, DaddyRickover_102, Daenerys_98, Deb65_93,

DillTech15_106, DismalFunk_90, DismalStressor_90, Donkeykong_106, Doomphist_105, Dorothy_101, Doughnut_91, Drago_99, EleanorGeorge_104, Empress_100, Estave1_108, Fancypants_107, Findley_90, GUmbie_99, Galactic_104, Gandolph_100, Geralt_93, Gorge_99, Hades_97, Hlubikazi_98, Inventum_98, IrishSherpFalk_100, Jarcob_103, JoeyJr_103, Juice456_99, KingMidas_100, Krakatau_93, Latretium_103, Leperchaun_102, LilMoolah_103, Llij_95, LordVader_96, MadMen_105, Madiba_99, Mandlovu_98, Mattes_101, Milly_90, MinionDave_98, Minnie_95, Misha28_90, Moonbeam_103, Mufasa_90, MulchSalad_102, Nimbo_92, Nivrat_100, Ogopogo_104, OldBen_97, PHappiness_100, PMC_99, Peridot_103, Piper2020_95, Plumbus_99, Poenanya_104, Polka14_104, Pollywog_102, QuickMath_101, Radiance_98, Ramsey_105, RedBird_101, Rialto_105, RitaG_99, Rockne_103, Saal_98, Sassafras_102, Scottish_100, ShiLan_103, Sparkdehlily_107, Spartacus_107, Spoonbill_100, Squirty_99, Starcevich_102, Strobilo_91, Strokeseat_98, TDanisky_108, TM4_88, TootsiePop_90, Totinger_103, WillSterrel_98, Yorick_96, ZoeJ_88,

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

-

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

-

Summary by start number:

Start 8:

- Found in 93 of 93 (100.0%) of genes in pham
- Manual Annotations of this start: 89 of 89
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alexphander_101 (F1), ArcusAngelus_100 (F1), BlueCrab_103 (F1), BodEinwohner17_110 (F1), BoostSeason_90 (K2), BuzzLyseyear_107 (F1), ByChance_91 (F1), Cheesepuff_105 (F1), Chevrolet_104 (F1), DRBy19_100 (F1), DaddyRickover_102 (F1), Daenerys_98 (F1), Deb65_93 (F1), DillTech15_106 (F1), DismalFunk_90 (K2), DismalStressor_90 (K2), Donkeykong_106 (F1), Doomphist_105 (F1), Dorothy_101 (F1), Doughnut_91 (K2), Drago_99 (F1), EleanorGeorge_104 (F1), Empress_100 (F1), Estave1_108 (F1), Fancypants_107 (F1), Findley_90 (K2), GUmbie_99 (F1), Galactic_104 (F1), Gandolph_100 (F1), Geralt_93 (F1), Gorge_99 (F1), Hades_97 (F1), Hlubikazi_98 (F1), Inventum_98 (F1), IrishSherpFalk_100 (F1), Jarcob_103 (F1), JoeyJr_103 (F1), Juice456_99 (F1), KingMidas_100 (F1), Krakatau_93 (F1), Latretium_103 (F1), Leperchaun_102 (F1), LilMoolah_103 (F1), Llij_95 (F1), LordVader_96 (F), MadMen_105 (F1), Madiba_99 (F1), Mandlovu_98 (F1), Mattes_101 (F1), Milly_90 (K2), MinionDave_98 (F1), Minnie_95 (F1), Misha28_90 (F1), Moonbeam_103 (F1), Mufasa_90 (K2), MulchSalad_102 (F7), Nimbo_92 (F1), Nivrat_100 (F1), Ogopogo_104 (F1), OldBen_97 (F1), PHappiness_100 (F1), PMC_99 (F1), Peridot_103 (F1), Piper2020_95 (F1), Plumbus_99 (F1), Poenanya_104 (F1), Polka14_104 (F1), Pollywog_102 (F1), QuickMath_101 (F1), Radiance_98 (F1), Ramsey_105 (F1), RedBird_101 (F1), Rialto_105 (F1), RitaG_99 (F1), Rockne_103 (F1), Saal_98 (F1), Sassafras_102 (F1), Scottish_100 (F1), ShiLan_103 (F1), Sparkdehlily_107 (F1), Spartacus_107 (F1), Spoonbill_100 (F1), Squirty_99 (F3), Starcevich_102 (F1), Strobilo_91 (K2), Strokeseat_98 (F1), TDanisky_108 (F1), TM4_88 (K2), TootsiePop_90 (F1), Totinger_103 (F1), WillSterrel_98 (F1), Yorick_96 (F1), ZoeJ_88 (K2),

Summary by clusters:

There are 5 clusters represented in this pham: F1, F3, K2, F7, F,

Info for manual annotations of cluster F1:

- Start number 8 was manually annotated 78 times for cluster F1.

Info for manual annotations of cluster F3:

- Start number 8 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster K2:

- Start number 8 was manually annotated 10 times for cluster K2.

Gene Information:

Gene: Alexphander_101 Start: 55198, Stop: 55359, Start Num: 8

Candidate Starts for Alexphander_101:

(Start: 8 @55198 has 89 MA's),

Gene: ArcusAngelus_100 Start: 55168, Stop: 55329, Start Num: 8

Candidate Starts for ArcusAngelus_100:

(Start: 8 @55168 has 89 MA's),

Gene: BlueCrab_103 Start: 55675, Stop: 55836, Start Num: 8

Candidate Starts for BlueCrab_103:

(Start: 8 @55675 has 89 MA's),

Gene: BodEinwohner17_110 Start: 56731, Stop: 56892, Start Num: 8

Candidate Starts for BodEinwohner17_110:

(Start: 8 @56731 has 89 MA's),

Gene: BoostSeason_90 Start: 56740, Stop: 56907, Start Num: 8

Candidate Starts for BoostSeason_90:

(3, 56392), (7, 56710), (Start: 8 @56740 has 89 MA's),

Gene: BuzzLyseyear_107 Start: 56886, Stop: 57047, Start Num: 8

Candidate Starts for BuzzLyseyear_107:

(Start: 8 @56886 has 89 MA's),

Gene: ByChance_91 Start: 50198, Stop: 50359, Start Num: 8

Candidate Starts for ByChance_91:

(Start: 8 @50198 has 89 MA's),

Gene: Cheesepuff_105 Start: 54122, Stop: 54283, Start Num: 8

Candidate Starts for Cheesepuff_105:

(Start: 8 @54122 has 89 MA's),

Gene: Chevrolet_104 Start: 55169, Stop: 55330, Start Num: 8

Candidate Starts for Chevrolet_104:
(Start: 8 @55169 has 89 MA's),

Gene: DRBy19_100 Start: 55442, Stop: 55603, Start Num: 8
Candidate Starts for DRBy19_100:
(Start: 8 @55442 has 89 MA's),

Gene: DaddyRickover_102 Start: 54925, Stop: 55086, Start Num: 8
Candidate Starts for DaddyRickover_102:
(Start: 8 @54925 has 89 MA's),

Gene: Daenerys_98 Start: 55092, Stop: 55253, Start Num: 8
Candidate Starts for Daenerys_98:
(Start: 8 @55092 has 89 MA's),

Gene: Deb65_93 Start: 52816, Stop: 52977, Start Num: 8
Candidate Starts for Deb65_93:
(Start: 8 @52816 has 89 MA's),

Gene: DillTech15_106 Start: 54398, Stop: 54559, Start Num: 8
Candidate Starts for DillTech15_106:
(Start: 8 @54398 has 89 MA's),

Gene: DismalFunk_90 Start: 56788, Stop: 56955, Start Num: 8
Candidate Starts for DismalFunk_90:
(1, 56377), (2, 56392), (3, 56446), (7, 56758), (Start: 8 @56788 has 89 MA's),

Gene: DismalStressor_90 Start: 56788, Stop: 56955, Start Num: 8
Candidate Starts for DismalStressor_90:
(1, 56377), (2, 56392), (3, 56446), (7, 56758), (Start: 8 @56788 has 89 MA's),

Gene: Donkeykong_106 Start: 56558, Stop: 56719, Start Num: 8
Candidate Starts for Donkeykong_106:
(Start: 8 @56558 has 89 MA's),

Gene: Doomphist_105 Start: 55745, Stop: 55906, Start Num: 8
Candidate Starts for Doomphist_105:
(Start: 8 @55745 has 89 MA's),

Gene: Dorothy_101 Start: 55914, Stop: 56075, Start Num: 8
Candidate Starts for Dorothy_101:
(Start: 8 @55914 has 89 MA's),

Gene: Doughnut_91 Start: 56921, Stop: 57088, Start Num: 8
Candidate Starts for Doughnut_91:
(3, 56579), (7, 56891), (Start: 8 @56921 has 89 MA's),

Gene: Drago_99 Start: 51641, Stop: 51802, Start Num: 8
Candidate Starts for Drago_99:
(Start: 8 @51641 has 89 MA's),

Gene: EleanorGeorge_104 Start: 56559, Stop: 56720, Start Num: 8
Candidate Starts for EleanorGeorge_104:

(Start: 8 @56559 has 89 MA's),

Gene: Empress_100 Start: 54008, Stop: 54169, Start Num: 8

Candidate Starts for Empress_100:

(Start: 8 @54008 has 89 MA's),

Gene: Estave1_108 Start: 57801, Stop: 57962, Start Num: 8

Candidate Starts for Estave1_108:

(Start: 8 @57801 has 89 MA's),

Gene: Fancypants_107 Start: 57307, Stop: 57468, Start Num: 8

Candidate Starts for Fancypants_107:

(Start: 8 @57307 has 89 MA's),

Gene: Findley_90 Start: 56807, Stop: 56974, Start Num: 8

Candidate Starts for Findley_90:

(1, 56396), (2, 56411), (3, 56465), (7, 56777), (Start: 8 @56807 has 89 MA's),

Gene: GUmbie_99 Start: 53944, Stop: 54105, Start Num: 8

Candidate Starts for GUmbie_99:

(Start: 8 @53944 has 89 MA's),

Gene: Galactic_104 Start: 54420, Stop: 54581, Start Num: 8

Candidate Starts for Galactic_104:

(Start: 8 @54420 has 89 MA's),

Gene: Gandolph_100 Start: 52050, Stop: 52211, Start Num: 8

Candidate Starts for Gandolph_100:

(Start: 8 @52050 has 89 MA's),

Gene: Geralt_93 Start: 52814, Stop: 52975, Start Num: 8

Candidate Starts for Geralt_93:

(Start: 8 @52814 has 89 MA's),

Gene: Gorge_99 Start: 55034, Stop: 55195, Start Num: 8

Candidate Starts for Gorge_99:

(Start: 8 @55034 has 89 MA's),

Gene: Hades_97 Start: 51586, Stop: 51747, Start Num: 8

Candidate Starts for Hades_97:

(Start: 8 @51586 has 89 MA's),

Gene: Hlubikazi_98 Start: 52547, Stop: 52708, Start Num: 8

Candidate Starts for Hlubikazi_98:

(Start: 8 @52547 has 89 MA's),

Gene: Inventum_98 Start: 54102, Stop: 54263, Start Num: 8

Candidate Starts for Inventum_98:

(Start: 8 @54102 has 89 MA's),

Gene: IrishSherpFalk_100 Start: 54437, Stop: 54598, Start Num: 8

Candidate Starts for IrishSherpFalk_100:

(6, 54395), (Start: 8 @54437 has 89 MA's),

Gene: Jarcob_103 Start: 56015, Stop: 56176, Start Num: 8
Candidate Starts for Jarcob_103:
(Start: 8 @56015 has 89 MA's),

Gene: JoeyJr_103 Start: 56010, Stop: 56171, Start Num: 8
Candidate Starts for JoeyJr_103:
(Start: 8 @56010 has 89 MA's),

Gene: Juice456_99 Start: 53720, Stop: 53881, Start Num: 8
Candidate Starts for Juice456_99:
(Start: 8 @53720 has 89 MA's),

Gene: KingMidas_100 Start: 54239, Stop: 54400, Start Num: 8
Candidate Starts for KingMidas_100:
(Start: 8 @54239 has 89 MA's),

Gene: Krakatau_93 Start: 50137, Stop: 50298, Start Num: 8
Candidate Starts for Krakatau_93:
(Start: 8 @50137 has 89 MA's),

Gene: Latretium_103 Start: 55281, Stop: 55442, Start Num: 8
Candidate Starts for Latretium_103:
(Start: 8 @55281 has 89 MA's),

Gene: Leperchaun_102 Start: 55244, Stop: 55405, Start Num: 8
Candidate Starts for Leperchaun_102:
(Start: 8 @55244 has 89 MA's),

Gene: LilMoolah_103 Start: 55215, Stop: 55376, Start Num: 8
Candidate Starts for LilMoolah_103:
(Start: 8 @55215 has 89 MA's),

Gene: Llij_95 Start: 53166, Stop: 53327, Start Num: 8
Candidate Starts for Llij_95:
(Start: 8 @53166 has 89 MA's),

Gene: LordVader_96 Start: 51082, Stop: 51243, Start Num: 8
Candidate Starts for LordVader_96:
(5, 51001), (Start: 8 @51082 has 89 MA's),

Gene: MadMen_105 Start: 54834, Stop: 54995, Start Num: 8
Candidate Starts for MadMen_105:
(Start: 8 @54834 has 89 MA's),

Gene: Madiba_99 Start: 53523, Stop: 53684, Start Num: 8
Candidate Starts for Madiba_99:
(Start: 8 @53523 has 89 MA's),

Gene: Mandlovu_98 Start: 52489, Stop: 52650, Start Num: 8
Candidate Starts for Mandlovu_98:
(Start: 8 @52489 has 89 MA's),

Gene: Mattes_101 Start: 55152, Stop: 55313, Start Num: 8

Candidate Starts for Mattes_101:

(Start: 8 @55152 has 89 MA's),

Gene: Milly_90 Start: 56870, Stop: 57037, Start Num: 8

Candidate Starts for Milly_90:

(1, 56459), (2, 56474), (3, 56528), (7, 56840), (Start: 8 @56870 has 89 MA's),

Gene: MinionDave_98 Start: 54626, Stop: 54787, Start Num: 8

Candidate Starts for MinionDave_98:

(Start: 8 @54626 has 89 MA's),

Gene: Minnie_95 Start: 55564, Stop: 55725, Start Num: 8

Candidate Starts for Minnie_95:

(Start: 8 @55564 has 89 MA's),

Gene: Misha28_90 Start: 54937, Stop: 55098, Start Num: 8

Candidate Starts for Misha28_90:

(Start: 8 @54937 has 89 MA's),

Gene: Moonbeam_103 Start: 55059, Stop: 55220, Start Num: 8

Candidate Starts for Moonbeam_103:

(Start: 8 @55059 has 89 MA's),

Gene: Mufasa_90 Start: 56727, Stop: 56894, Start Num: 8

Candidate Starts for Mufasa_90:

(3, 56379), (7, 56697), (Start: 8 @56727 has 89 MA's),

Gene: MulchSalad_102 Start: 55492, Stop: 55653, Start Num: 8

Candidate Starts for MulchSalad_102:

(5, 55411), (Start: 8 @55492 has 89 MA's),

Gene: Nimbo_92 Start: 52816, Stop: 52977, Start Num: 8

Candidate Starts for Nimbo_92:

(Start: 8 @52816 has 89 MA's),

Gene: Nivrat_100 Start: 55088, Stop: 55249, Start Num: 8

Candidate Starts for Nivrat_100:

(Start: 8 @55088 has 89 MA's),

Gene: Ogopogo_104 Start: 53421, Stop: 53582, Start Num: 8

Candidate Starts for Ogopogo_104:

(Start: 8 @53421 has 89 MA's),

Gene: OldBen_97 Start: 54208, Stop: 54369, Start Num: 8

Candidate Starts for OldBen_97:

(Start: 8 @54208 has 89 MA's),

Gene: PHappiness_100 Start: 55037, Stop: 55198, Start Num: 8

Candidate Starts for PHappiness_100:

(Start: 8 @55037 has 89 MA's),

Gene: PMC_99 Start: 53252, Stop: 53413, Start Num: 8

Candidate Starts for PMC_99:
(Start: 8 @53252 has 89 MA's),

Gene: Peridot_103 Start: 54621, Stop: 54782, Start Num: 8
Candidate Starts for Peridot_103:
(Start: 8 @54621 has 89 MA's),

Gene: Piper2020_95 Start: 55185, Stop: 55346, Start Num: 8
Candidate Starts for Piper2020_95:
(Start: 8 @55185 has 89 MA's),

Gene: Plumbus_99 Start: 51933, Stop: 52094, Start Num: 8
Candidate Starts for Plumbus_99:
(Start: 8 @51933 has 89 MA's),

Gene: Poenanya_104 Start: 55745, Stop: 55906, Start Num: 8
Candidate Starts for Poenanya_104:
(Start: 8 @55745 has 89 MA's),

Gene: Polka14_104 Start: 55806, Stop: 55967, Start Num: 8
Candidate Starts for Polka14_104:
(Start: 8 @55806 has 89 MA's),

Gene: Pollywog_102 Start: 55864, Stop: 56025, Start Num: 8
Candidate Starts for Pollywog_102:
(Start: 8 @55864 has 89 MA's),

Gene: QuickMath_101 Start: 54125, Stop: 54286, Start Num: 8
Candidate Starts for QuickMath_101:
(Start: 8 @54125 has 89 MA's),

Gene: Radiance_98 Start: 54149, Stop: 54310, Start Num: 8
Candidate Starts for Radiance_98:
(Start: 8 @54149 has 89 MA's),

Gene: Ramsey_105 Start: 56045, Stop: 56206, Start Num: 8
Candidate Starts for Ramsey_105:
(Start: 8 @56045 has 89 MA's),

Gene: RedBird_101 Start: 55784, Stop: 55945, Start Num: 8
Candidate Starts for RedBird_101:
(Start: 8 @55784 has 89 MA's),

Gene: Rialto_105 Start: 55400, Stop: 55561, Start Num: 8
Candidate Starts for Rialto_105:
(Start: 8 @55400 has 89 MA's),

Gene: RitaG_99 Start: 54839, Stop: 55000, Start Num: 8
Candidate Starts for RitaG_99:
(Start: 8 @54839 has 89 MA's),

Gene: Rockne_103 Start: 53264, Stop: 53425, Start Num: 8
Candidate Starts for Rockne_103:

(Start: 8 @53264 has 89 MA's),

Gene: Saal_98 Start: 54854, Stop: 55015, Start Num: 8

Candidate Starts for Saal_98:

(Start: 8 @54854 has 89 MA's),

Gene: Sassafras_102 Start: 54101, Stop: 54262, Start Num: 8

Candidate Starts for Sassafras_102:

(Start: 8 @54101 has 89 MA's),

Gene: Scottish_100 Start: 53678, Stop: 53839, Start Num: 8

Candidate Starts for Scottish_100:

(Start: 8 @53678 has 89 MA's),

Gene: ShiLan_103 Start: 56871, Stop: 57032, Start Num: 8

Candidate Starts for ShiLan_103:

(Start: 8 @56871 has 89 MA's),

Gene: Sparkdehlily_107 Start: 53349, Stop: 53510, Start Num: 8

Candidate Starts for Sparkdehlily_107:

(Start: 8 @53349 has 89 MA's),

Gene: Spartacus_107 Start: 57463, Stop: 57624, Start Num: 8

Candidate Starts for Spartacus_107:

(Start: 8 @57463 has 89 MA's),

Gene: Spoonbill_100 Start: 52784, Stop: 52945, Start Num: 8

Candidate Starts for Spoonbill_100:

(Start: 8 @52784 has 89 MA's),

Gene: Squirty_99 Start: 57753, Stop: 57914, Start Num: 8

Candidate Starts for Squirty_99:

(5, 57672), (Start: 8 @57753 has 89 MA's),

Gene: Starcevich_102 Start: 55513, Stop: 55674, Start Num: 8

Candidate Starts for Starcevich_102:

(6, 55471), (Start: 8 @55513 has 89 MA's),

Gene: Strobilo_91 Start: 56785, Stop: 56952, Start Num: 8

Candidate Starts for Strobilo_91:

(1, 56374), (2, 56389), (3, 56443), (7, 56755), (Start: 8 @56785 has 89 MA's),

Gene: Strokeseat_98 Start: 52546, Stop: 52707, Start Num: 8

Candidate Starts for Strokeseat_98:

(Start: 8 @52546 has 89 MA's),

Gene: TDanisky_108 Start: 53349, Stop: 53510, Start Num: 8

Candidate Starts for TDanisky_108:

(Start: 8 @53349 has 89 MA's),

Gene: TM4_88 Start: 51459, Stop: 51626, Start Num: 8

Candidate Starts for TM4_88:

(2, 51063), (3, 51117), (7, 51429), (Start: 8 @51459 has 89 MA's),

Gene: TootsiePop_90 Start: 54937, Stop: 55098, Start Num: 8
Candidate Starts for TootsiePop_90:
(Start: 8 @54937 has 89 MA's),

Gene: Totinger_103 Start: 54913, Stop: 55074, Start Num: 8
Candidate Starts for Totinger_103:
(Start: 8 @54913 has 89 MA's),

Gene: WillSterrel_98 Start: 54470, Stop: 54631, Start Num: 8
Candidate Starts for WillSterrel_98:
(6, 54428), (Start: 8 @54470 has 89 MA's),

Gene: Yorick_96 Start: 55531, Stop: 55692, Start Num: 8
Candidate Starts for Yorick_96:
(Start: 8 @55531 has 89 MA's),

Gene: ZoeJ_88 Start: 55979, Stop: 56146, Start Num: 8
Candidate Starts for ZoeJ_88:
(4, 55652), (7, 55949), (Start: 8 @55979 has 89 MA's),