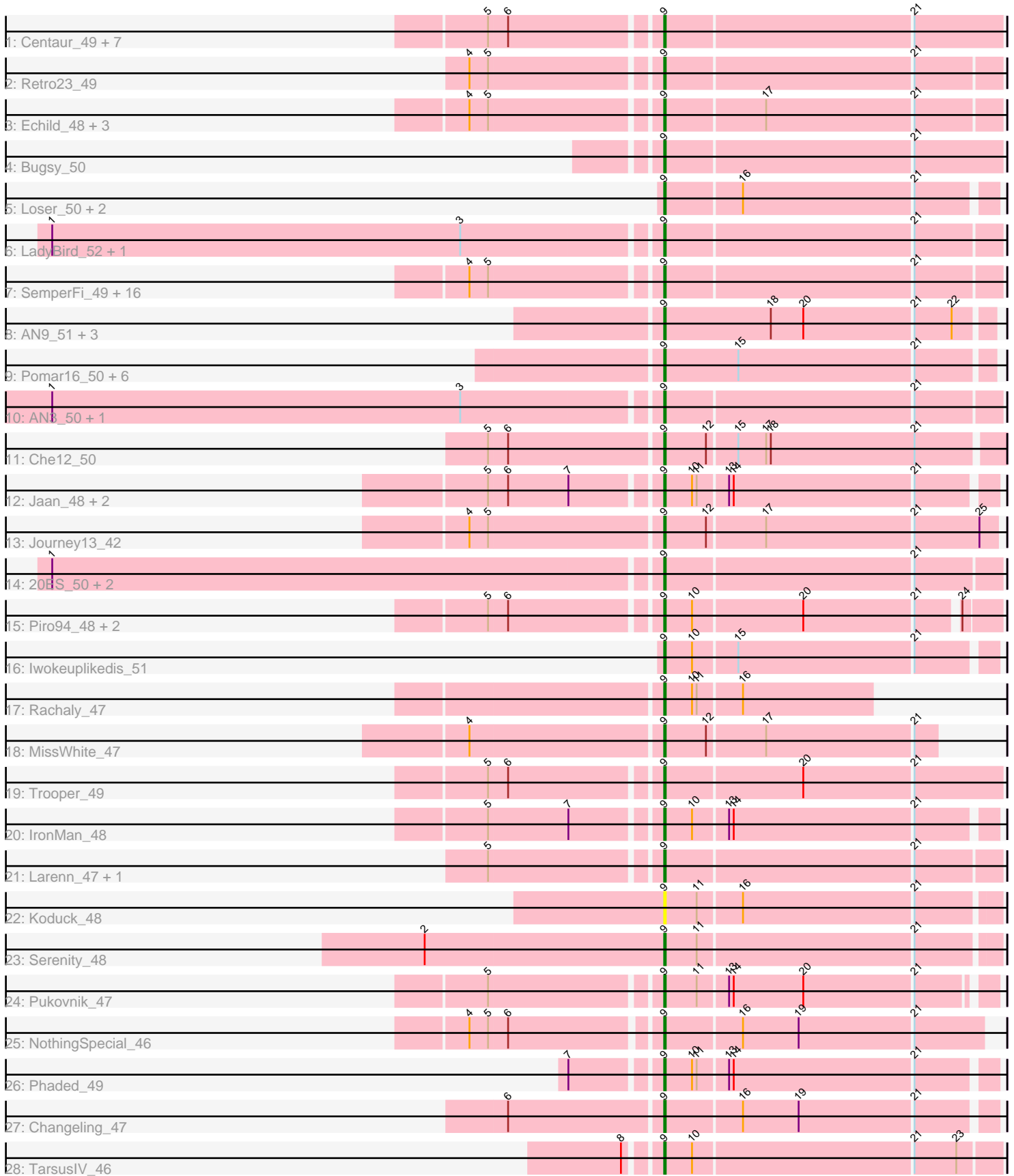


Pham 193965



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 193965 Report

This analysis was run 11/02/24 on database version 579.

Pham number 193965 has 74 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Centaur_49, Baehexic_47, MiculUcigas_48, Equemioh13_49, NaSiaTalie_48, Flare16_48, Updawg_49, WideWale_49
- Track 2 : Retro23_49
- Track 3 : Echild_48, Turbido_49, Benvolio_45, Crucio_48
- Track 4 : Buggy_50
- Track 5 : Loser_50, AnnaL29_50, RedRock_50
- Track 6 : LadyBird_52, First_0049
- Track 7 : SemperFi_49, AbbyPaige_50, Agape74_50, Whabigail7_49, Power_47, Jerm_50, EvilGenius_50, Georgie2_49, FiringLine_48, ChipMunk_50, SnapTap_48, Smeagan_51, KingCyrus_50, Dignity_50, Leviathan_50, QueenBeesly_48, SweetiePie_48
- Track 8 : AN9_51, C3_46, AN18_51, VC3_51
- Track 9 : Pomar16_50, Kerberos_50, DBQu4n_50, StarStuff_50, Tomathan_50, Duplo_50, Travvers_50
- Track 10 : AN3_50, VA6_48
- Track 11 : Che12_50
- Track 12 : Jaan_48, Landor_48, Bactobuster_47
- Track 13 : Journey13_42
- Track 14 : 20ES_50, Deloris_48, BengiVuitton_49
- Track 15 : Piro94_48, HarryHoudini_49, Drake55_50
- Track 16 : Iwokeuplikedis_51
- Track 17 : Rachaly_47
- Track 18 : MissWhite_47
- Track 19 : Trooper_49
- Track 20 : IronMan_48
- Track 21 : Larenn_47, Malec_48
- Track 22 : Koduck_48
- Track 23 : Serenity_48
- Track 24 : Pukovnik_47
- Track 25 : NothingSpecial_46
- Track 26 : Phaded_49
- Track 27 : Changeling_47
- Track 28 : TarsusIV_46

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

The start number called the most often in the published annotations is 9, it was called in 70 of the 70 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 20ES_50, AN3_50, AN9_51, ANI8_51, AbbyPaige_50, Agape74_50, AnnaL29_50, Bactobuster_47, Baehexic_47, BengiVuitton_49, Benvolio_45, Buggy_50, C3_46, Centaur_49, Changeling_47, Che12_50, ChipMunk_50, Crucio_48, DBQu4n_50, Deloris_48, Dignity_50, Drake55_50, Duplo_50, Echild_48, Equemioh13_49, EvilGenius_50, FiringLine_48, First_0049, Flare16_48, Georgie2_49, HarryHoudini_49, IronMan_48, Iwokeuplikedis_51, Jaan_48, Jerm_50, Journey13_42, Kerberos_50, KingCyrus_50, Koduck_48, LadyBird_52, Landor_48, Larenn_47, Leviathan_50, Loser_50, Malec_48, MiculUcigas_48, MissWhite_47, NaSiaTalie_48, NothingSpecial_46, Phaded_49, Piro94_48, Pomar16_50, Power_47, Pukovnik_47, QueenBeesly_48, Rachaly_47, RedRock_50, Retro23_49, SemperFi_49, Serenity_48, Smeagan_51, SnapTap_48, StarStuff_50, SweetiePie_48, TarsusIV_46, Tomathan_50, Travvers_50, Trooper_49, Turbido_49, Updawg_49, VA6_48, VC3_51, Whabigail7_49, WideWale_49,

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 9:

- Found in 74 of 74 (100.0%) of genes in pham
- Manual Annotations of this start: 70 of 70
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 20ES_50 (A2), AN3_50 (A2), AN9_51 (A2), ANI8_51 (A2), AbbyPaige_50 (A2), Agape74_50 (A2), AnnaL29_50 (A2), Bactobuster_47 (A2), Baehexic_47 (A2), BengiVuitton_49 (A2), Benvolio_45 (A2), Buggy_50 (A2), C3_46 (A2), Centaur_49 (A2), Changeling_47 (A2), Che12_50 (A2), ChipMunk_50 (A2), Crucio_48 (A2), DBQu4n_50 (A2), Deloris_48 (A2), Dignity_50 (A2), Drake55_50 (A2), Duplo_50 (A2), Echild_48 (A2), Equemioh13_49 (A2), EvilGenius_50 (A2), FiringLine_48 (A2), First_0049 (A2), Flare16_48 (A2), Georgie2_49 (A2), HarryHoudini_49 (A2), IronMan_48 (A2), Iwokeuplikedis_51 (A2), Jaan_48 (A2), Jerm_50 (A2), Journey13_42 (A2), Kerberos_50 (A2), KingCyrus_50 (A2), Koduck_48 (A2), LadyBird_52 (A2), Landor_48 (A2), Larenn_47 (A2), Leviathan_50 (A2), Loser_50 (A2), Malec_48 (A2), MiculUcigas_48 (A2), MissWhite_47 (A2), NaSiaTalie_48 (A2), NothingSpecial_46 (A2), Phaded_49 (A2), Piro94_48 (A2), Pomar16_50 (A2), Power_47 (A2), Pukovnik_47 (A2), QueenBeesly_48 (A2), Rachaly_47 (A2), RedRock_50 (A2), Retro23_49 (A2), SemperFi_49 (A2), Serenity_48 (A2), Smeagan_51 (A2), SnapTap_48 (A2), StarStuff_50 (A2), SweetiePie_48 (A2), TarsusIV_46 (A2), Tomathan_50 (A2), Travvers_50 (A2), Trooper_49 (A2), Turbido_49 (A2), Updawg_49 (A2), VA6_48 (A2), VC3_51 (A2), Whabigail7_49 (A2), WideWale_49 (A2),

Summary by clusters:

There is one cluster represented in this pham: A2

Info for manual annotations of cluster A2:

•Start number 9 was manually annotated 70 times for cluster A2.

Gene Information:

Gene: 20ES_50 Start: 32641, Stop: 32432, Start Num: 9

Candidate Starts for 20ES_50:

(1, 33025), (Start: 9 @32641 has 70 MA's), (21, 32485),

Gene: AN3_50 Start: 33012, Stop: 32803, Start Num: 9

Candidate Starts for AN3_50:

(1, 33396), (3, 33132), (Start: 9 @33012 has 70 MA's), (21, 32856),

Gene: AN9_51 Start: 32552, Stop: 32346, Start Num: 9

Candidate Starts for AN9_51:

(Start: 9 @32552 has 70 MA's), (18, 32483), (20, 32462), (21, 32393), (22, 32369),

Gene: ANI8_51 Start: 32552, Stop: 32346, Start Num: 9

Candidate Starts for ANI8_51:

(Start: 9 @32552 has 70 MA's), (18, 32483), (20, 32462), (21, 32393), (22, 32369),

Gene: AbbyPaige_50 Start: 32822, Stop: 32613, Start Num: 9

Candidate Starts for AbbyPaige_50:

(4, 32936), (5, 32924), (Start: 9 @32822 has 70 MA's), (21, 32666),

Gene: Agape74_50 Start: 32807, Stop: 32598, Start Num: 9

Candidate Starts for Agape74_50:

(4, 32921), (5, 32909), (Start: 9 @32807 has 70 MA's), (21, 32651),

Gene: AnnaL29_50 Start: 33346, Stop: 33143, Start Num: 9

Candidate Starts for AnnaL29_50:

(Start: 9 @33346 has 70 MA's), (16, 33298), (21, 33190),

Gene: Bactobuster_47 Start: 33296, Stop: 33093, Start Num: 9

Candidate Starts for Bactobuster_47:

(5, 33398), (6, 33386), (7, 33347), (Start: 9 @33296 has 70 MA's), (10, 33278), (11, 33275), (13, 33257), (14, 33254), (21, 33140),

Gene: Baehexic_47 Start: 32512, Stop: 32300, Start Num: 9

Candidate Starts for Baehexic_47:

(5, 32614), (6, 32602), (Start: 9 @32512 has 70 MA's), (21, 32356),

Gene: BengiVuitton_49 Start: 32594, Stop: 32385, Start Num: 9

Candidate Starts for BengiVuitton_49:

(1, 32978), (Start: 9 @32594 has 70 MA's), (21, 32438),

Gene: Benvolio_45 Start: 31769, Stop: 31560, Start Num: 9

Candidate Starts for Benvolio_45:

(4, 31883), (5, 31871), (Start: 9 @31769 has 70 MA's), (17, 31706), (21, 31613),

Gene: Buggy_50 Start: 32882, Stop: 32670, Start Num: 9

Candidate Starts for Buggy_50:

(Start: 9 @32882 has 70 MA's), (21, 32726),

Gene: C3_46 Start: 32552, Stop: 32346, Start Num: 9

Candidate Starts for C3_46:

(Start: 9 @32552 has 70 MA's), (18, 32483), (20, 32462), (21, 32393), (22, 32369),

Gene: Centaur_49 Start: 32729, Stop: 32517, Start Num: 9

Candidate Starts for Centaur_49:

(5, 32831), (6, 32819), (Start: 9 @32729 has 70 MA's), (21, 32573),

Gene: Changeling_47 Start: 32928, Stop: 32725, Start Num: 9

Candidate Starts for Changeling_47:

(6, 33024), (Start: 9 @32928 has 70 MA's), (16, 32880), (19, 32844), (21, 32772),

Gene: Che12_50 Start: 31360, Stop: 31148, Start Num: 9

Candidate Starts for Che12_50:

(5, 31468), (6, 31456), (Start: 9 @31360 has 70 MA's), (12, 31333), (15, 31315), (17, 31297), (18, 31294), (21, 31201),

Gene: ChipMunk_50 Start: 34079, Stop: 33870, Start Num: 9

Candidate Starts for ChipMunk_50:

(4, 34193), (5, 34181), (Start: 9 @34079 has 70 MA's), (21, 33923),

Gene: Crucio_48 Start: 32322, Stop: 32113, Start Num: 9

Candidate Starts for Crucio_48:

(4, 32436), (5, 32424), (Start: 9 @32322 has 70 MA's), (17, 32259), (21, 32166),

Gene: DBQu4n_50 Start: 32112, Stop: 31906, Start Num: 9

Candidate Starts for DBQu4n_50:

(Start: 9 @32112 has 70 MA's), (15, 32064), (21, 31953),

Gene: Deloris_48 Start: 32263, Stop: 32054, Start Num: 9

Candidate Starts for Deloris_48:

(1, 32647), (Start: 9 @32263 has 70 MA's), (21, 32107),

Gene: Dignity_50 Start: 32887, Stop: 32678, Start Num: 9

Candidate Starts for Dignity_50:

(4, 33001), (5, 32989), (Start: 9 @32887 has 70 MA's), (21, 32731),

Gene: Drake55_50 Start: 32805, Stop: 32602, Start Num: 9

Candidate Starts for Drake55_50:

(5, 32907), (6, 32895), (Start: 9 @32805 has 70 MA's), (10, 32787), (20, 32718), (21, 32649), (24, 32625),

Gene: Duplo_50 Start: 32150, Stop: 31944, Start Num: 9

Candidate Starts for Duplo_50:

(Start: 9 @32150 has 70 MA's), (15, 32102), (21, 31991),

Gene: Echild_48 Start: 31793, Stop: 31584, Start Num: 9

Candidate Starts for Echild_48:

(4, 31907), (5, 31895), (Start: 9 @31793 has 70 MA's), (17, 31730), (21, 31637),

Gene: Equemioh13_49 Start: 32631, Stop: 32419, Start Num: 9
Candidate Starts for Equemioh13_49:
(5, 32733), (6, 32721), (Start: 9 @32631 has 70 MA's), (21, 32475),

Gene: EvilGenius_50 Start: 34083, Stop: 33874, Start Num: 9
Candidate Starts for EvilGenius_50:
(4, 34197), (5, 34185), (Start: 9 @34083 has 70 MA's), (21, 33927),

Gene: FiringLine_48 Start: 32303, Stop: 32094, Start Num: 9
Candidate Starts for FiringLine_48:
(4, 32417), (5, 32405), (Start: 9 @32303 has 70 MA's), (21, 32147),

Gene: First_0049 Start: 32517, Stop: 32308, Start Num: 9
Candidate Starts for First_0049:
(1, 32901), (3, 32637), (Start: 9 @32517 has 70 MA's), (21, 32361),

Gene: Flare16_48 Start: 32390, Stop: 32178, Start Num: 9
Candidate Starts for Flare16_48:
(5, 32492), (6, 32480), (Start: 9 @32390 has 70 MA's), (21, 32234),

Gene: Georgie2_49 Start: 32348, Stop: 32139, Start Num: 9
Candidate Starts for Georgie2_49:
(4, 32462), (5, 32450), (Start: 9 @32348 has 70 MA's), (21, 32192),

Gene: HarryHoudini_49 Start: 32814, Stop: 32611, Start Num: 9
Candidate Starts for HarryHoudini_49:
(5, 32916), (6, 32904), (Start: 9 @32814 has 70 MA's), (10, 32796), (20, 32727), (21, 32658), (24, 32634),

Gene: IronMan_48 Start: 33479, Stop: 33276, Start Num: 9
Candidate Starts for IronMan_48:
(5, 33581), (7, 33530), (Start: 9 @33479 has 70 MA's), (10, 33461), (13, 33440), (14, 33437), (21, 33323),

Gene: Iwokeuplikedis_51 Start: 32416, Stop: 32213, Start Num: 9
Candidate Starts for Iwokeuplikedis_51:
(Start: 9 @32416 has 70 MA's), (10, 32398), (15, 32371), (21, 32260),

Gene: Jaan_48 Start: 33645, Stop: 33442, Start Num: 9
Candidate Starts for Jaan_48:
(5, 33747), (6, 33735), (7, 33696), (Start: 9 @33645 has 70 MA's), (10, 33627), (11, 33624), (13, 33606), (14, 33603), (21, 33489),

Gene: Jerm_50 Start: 32880, Stop: 32671, Start Num: 9
Candidate Starts for Jerm_50:
(4, 32994), (5, 32982), (Start: 9 @32880 has 70 MA's), (21, 32724),

Gene: Journey13_42 Start: 30735, Stop: 30526, Start Num: 9
Candidate Starts for Journey13_42:
(4, 30855), (5, 30843), (Start: 9 @30735 has 70 MA's), (12, 30708), (17, 30672), (21, 30579), (25, 30537),

Gene: Kerberos_50 Start: 32112, Stop: 31906, Start Num: 9

Candidate Starts for Kerberos_50:

(Start: 9 @32112 has 70 MA's), (15, 32064), (21, 31953),

Gene: KingCyrus_50 Start: 34078, Stop: 33869, Start Num: 9

Candidate Starts for KingCyrus_50:

(4, 34192), (5, 34180), (Start: 9 @34078 has 70 MA's), (21, 33922),

Gene: Koduck_48 Start: 31520, Stop: 31314, Start Num: 9

Candidate Starts for Koduck_48:

(Start: 9 @31520 has 70 MA's), (11, 31499), (16, 31472), (21, 31364),

Gene: LadyBird_52 Start: 32952, Stop: 32743, Start Num: 9

Candidate Starts for LadyBird_52:

(1, 33336), (3, 33072), (Start: 9 @32952 has 70 MA's), (21, 32796),

Gene: Landor_48 Start: 33557, Stop: 33354, Start Num: 9

Candidate Starts for Landor_48:

(5, 33659), (6, 33647), (7, 33608), (Start: 9 @33557 has 70 MA's), (10, 33539), (11, 33536), (13, 33518), (14, 33515), (21, 33401),

Gene: Larenn_47 Start: 32493, Stop: 32284, Start Num: 9

Candidate Starts for Larenn_47:

(5, 32595), (Start: 9 @32493 has 70 MA's), (21, 32337),

Gene: Leviathan_50 Start: 32936, Stop: 32727, Start Num: 9

Candidate Starts for Leviathan_50:

(4, 33050), (5, 33038), (Start: 9 @32936 has 70 MA's), (21, 32780),

Gene: Loser_50 Start: 33295, Stop: 33092, Start Num: 9

Candidate Starts for Loser_50:

(Start: 9 @33295 has 70 MA's), (16, 33247), (21, 33139),

Gene: Malec_48 Start: 33057, Stop: 32848, Start Num: 9

Candidate Starts for Malec_48:

(5, 33159), (Start: 9 @33057 has 70 MA's), (21, 32901),

Gene: MiculUcigas_48 Start: 32290, Stop: 32078, Start Num: 9

Candidate Starts for MiculUcigas_48:

(5, 32392), (6, 32380), (Start: 9 @32290 has 70 MA's), (21, 32134),

Gene: MissWhite_47 Start: 30815, Stop: 30645, Start Num: 9

Candidate Starts for MissWhite_47:

(4, 30935), (Start: 9 @30815 has 70 MA's), (12, 30788), (17, 30752), (21, 30659),

Gene: NaSiaTalie_48 Start: 32387, Stop: 32175, Start Num: 9

Candidate Starts for NaSiaTalie_48:

(5, 32489), (6, 32477), (Start: 9 @32387 has 70 MA's), (21, 32231),

Gene: NothingSpecial_46 Start: 32902, Stop: 32702, Start Num: 9

Candidate Starts for NothingSpecial_46:

(4, 33016), (5, 33004), (6, 32992), (Start: 9 @32902 has 70 MA's), (16, 32854), (19, 32818), (21, 32746),

Gene: Phaded_49 Start: 33539, Stop: 33336, Start Num: 9
Candidate Starts for Phaded_49:
(7, 33590), (Start: 9 @33539 has 70 MA's), (10, 33521), (11, 33518), (13, 33500), (14, 33497), (21, 33383),

Gene: Piro94_48 Start: 32731, Stop: 32528, Start Num: 9
Candidate Starts for Piro94_48:
(5, 32833), (6, 32821), (Start: 9 @32731 has 70 MA's), (10, 32713), (20, 32644), (21, 32575), (24, 32551),

Gene: Pomar16_50 Start: 32153, Stop: 31947, Start Num: 9
Candidate Starts for Pomar16_50:
(Start: 9 @32153 has 70 MA's), (15, 32105), (21, 31994),

Gene: Power_47 Start: 32356, Stop: 32147, Start Num: 9
Candidate Starts for Power_47:
(4, 32470), (5, 32458), (Start: 9 @32356 has 70 MA's), (21, 32200),

Gene: Pukovnik_47 Start: 33141, Stop: 32941, Start Num: 9
Candidate Starts for Pukovnik_47:
(5, 33243), (Start: 9 @33141 has 70 MA's), (11, 33120), (13, 33102), (14, 33099), (20, 33054), (21, 32985),

Gene: QueenBeesly_48 Start: 32303, Stop: 32094, Start Num: 9
Candidate Starts for QueenBeesly_48:
(4, 32417), (5, 32405), (Start: 9 @32303 has 70 MA's), (21, 32147),

Gene: Rachaly_47 Start: 32620, Stop: 32489, Start Num: 9
Candidate Starts for Rachaly_47:
(Start: 9 @32620 has 70 MA's), (10, 32602), (11, 32599), (16, 32572),

Gene: RedRock_50 Start: 33508, Stop: 33305, Start Num: 9
Candidate Starts for RedRock_50:
(Start: 9 @33508 has 70 MA's), (16, 33460), (21, 33352),

Gene: Retro23_49 Start: 32710, Stop: 32501, Start Num: 9
Candidate Starts for Retro23_49:
(4, 32824), (5, 32812), (Start: 9 @32710 has 70 MA's), (21, 32554),

Gene: SemperFi_49 Start: 32571, Stop: 32362, Start Num: 9
Candidate Starts for SemperFi_49:
(4, 32685), (5, 32673), (Start: 9 @32571 has 70 MA's), (21, 32415),

Gene: Serenity_48 Start: 31452, Stop: 31246, Start Num: 9
Candidate Starts for Serenity_48:
(2, 31605), (Start: 9 @31452 has 70 MA's), (11, 31431), (21, 31296),

Gene: Smeagan_51 Start: 33023, Stop: 32814, Start Num: 9
Candidate Starts for Smeagan_51:
(4, 33137), (5, 33125), (Start: 9 @33023 has 70 MA's), (21, 32867),

Gene: SnapTap_48 Start: 32382, Stop: 32173, Start Num: 9

Candidate Starts for SnapTap_48:

(4, 32496), (5, 32484), (Start: 9 @32382 has 70 MA's), (21, 32226),

Gene: StarStuff_50 Start: 32115, Stop: 31909, Start Num: 9

Candidate Starts for StarStuff_50:

(Start: 9 @32115 has 70 MA's), (15, 32067), (21, 31956),

Gene: SweetiePie_48 Start: 32511, Stop: 32302, Start Num: 9

Candidate Starts for SweetiePie_48:

(4, 32625), (5, 32613), (Start: 9 @32511 has 70 MA's), (21, 32355),

Gene: TarsusIV_46 Start: 32170, Stop: 31961, Start Num: 9

Candidate Starts for TarsusIV_46:

(8, 32188), (Start: 9 @32170 has 70 MA's), (10, 32152), (21, 32014), (23, 31987),

Gene: Tomathan_50 Start: 32112, Stop: 31906, Start Num: 9

Candidate Starts for Tomathan_50:

(Start: 9 @32112 has 70 MA's), (15, 32064), (21, 31953),

Gene: Travvers_50 Start: 32112, Stop: 31906, Start Num: 9

Candidate Starts for Travvers_50:

(Start: 9 @32112 has 70 MA's), (15, 32064), (21, 31953),

Gene: Trooper_49 Start: 32735, Stop: 32523, Start Num: 9

Candidate Starts for Trooper_49:

(5, 32837), (6, 32825), (Start: 9 @32735 has 70 MA's), (20, 32648), (21, 32579),

Gene: Turbido_49 Start: 32766, Stop: 32557, Start Num: 9

Candidate Starts for Turbido_49:

(4, 32880), (5, 32868), (Start: 9 @32766 has 70 MA's), (17, 32703), (21, 32610),

Gene: Updawg_49 Start: 32631, Stop: 32419, Start Num: 9

Candidate Starts for Updawg_49:

(5, 32733), (6, 32721), (Start: 9 @32631 has 70 MA's), (21, 32475),

Gene: VA6_48 Start: 32486, Stop: 32277, Start Num: 9

Candidate Starts for VA6_48:

(1, 32870), (3, 32606), (Start: 9 @32486 has 70 MA's), (21, 32330),

Gene: VC3_51 Start: 32552, Stop: 32346, Start Num: 9

Candidate Starts for VC3_51:

(Start: 9 @32552 has 70 MA's), (18, 32483), (20, 32462), (21, 32393), (22, 32369),

Gene: Whabigail7_49 Start: 32751, Stop: 32542, Start Num: 9

Candidate Starts for Whabigail7_49:

(4, 32865), (5, 32853), (Start: 9 @32751 has 70 MA's), (21, 32595),

Gene: WideWale_49 Start: 32631, Stop: 32419, Start Num: 9

Candidate Starts for WideWale_49:

(5, 32733), (6, 32721), (Start: 9 @32631 has 70 MA's), (21, 32475),