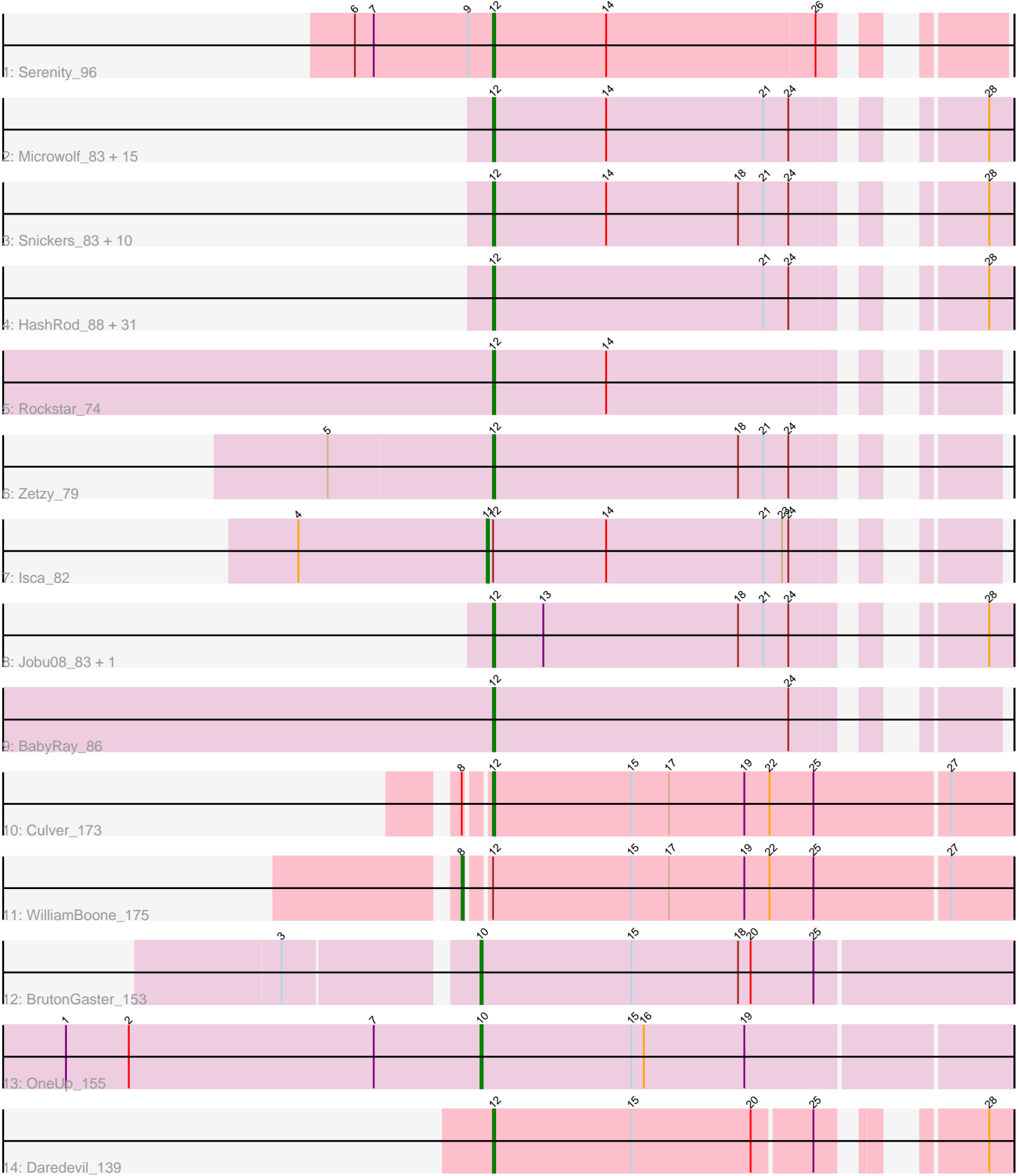


Pham 1325



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 1325 Report

This analysis was run 04/28/24 on database version 559.

Pham number 1325 has 71 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Serenity_96
- Track 2 : Microwolf_83, BreSam8_88, LugYA_90, Watson_87, Pembroke_88, Cullens_88, Lilith_85, Grub_85, MadMarie_85, Malinsilva_91, JenCasNa_88, Fernando_88, Taurus_88, MoneyMay_87, Marie_85, PGHhamlin_90
- Track 3 : Snickers_83, DaHudson_87, Spike509_88, Ollie_88, Mainiac_87, GtownJaz_88, Sabia_85, Anubis_92, LBerry_89, Stagni_84, StepMih_88
- Track 4 : HashRod_88, Sabinator_85, Methuselah_80, PotatoSplit_88, JHC117_82, GingkoMaracino_87, Rummer_86, Misomonster_83, BuzzBuzz_81, P28Green_87, Wooldri_89, Bxz2_82, Beauxregard13_86, EpicPhail_88, Daishi_86, Hercules11_87, Penny1_87, Grum1_87, Vix_83, Tiffany_86, LarryKay_87, Soshari_89, SoYo_84, Dieselweasel_88, MarQuardt_87, KADY_84, Louie6_86, Aglet_88, AgronaGT15_79, Phoebe_88, Colbster_83, Grif_85
- Track 5 : Rockstar_74
- Track 6 : Zetzy_79
- Track 7 : Isca_82
- Track 8 : Jobu08_83, SoilDragon_88
- Track 9 : BabyRay_86
- Track 10 : Culver_173
- Track 11 : WilliamBoone_175
- Track 12 : BrutonGaster_153
- Track 13 : OneUp_155
- Track 14 : Daredevil_139

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

The start number called the most often in the published annotations is 12, it was called in 66 of the 70 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aglet_88, AgronaGT15_79, Anubis_92, BabyRay_86, Beauxregard13_86, BreSam8_88, BuzzBuzz_81, Bxz2_82, Colbster_83, Cullens_88, Culver_173, DaHudson_87, Daishi_86, Daredevil_139, Dieselweasel_88, EpicPhail_88, Fernando_88, GingkoMaracino_87, Grif_85, Grub_85, Grum1_87, GtownJaz_88, HashRod_88, Hercules11_87, JHC117_82, JenCasNa_88, Jobu08_83, KADY_84,

LBerry_89, LarryKay_87, Lilith_85, Louie6_86, LugYA_90, MadMarie_85, Mainiac_87, Malinsilva_91, MarQuardt_87, Marie_85, Methuselah_80, Microwolf_83, Misomonster_83, MoneyMay_87, Ollie_88, P28Green_87, PGHhamlin_90, Pembroke_88, Penny1_87, Phoebe_88, PotatoSplit_88, Rockstar_74, Rummer_86, Sabia_85, Sabinator_85, Serenity_96, Snickers_83, SoYo_84, SoilDragon_88, Soshari_89, Spike509_88, Stagni_84, StepMih_88, Taurus_88, Tiffany_86, Vix_83, Watson_87, Wooldri_89, Zetzy_79,

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

- Isca_82, WilliamBoone_175,

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

- BrutonGaster_153, OneUp_155,

Summary by start number:

Start 8:

- Found in 2 of 71 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 70
- Called 50.0% of time when present
- Phage (with cluster) where this start called: WilliamBoone_175 (CQ1),

Start 10:

- Found in 2 of 71 (2.8%) of genes in pham
- Manual Annotations of this start: 2 of 70
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrutonGaster_153 (CQ2), OneUp_155 (CQ2),

Start 11:

- Found in 1 of 71 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 70
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Isca_82 (A3),

Start 12:

- Found in 69 of 71 (97.2%) of genes in pham
- Manual Annotations of this start: 66 of 70
- Called 97.1% of time when present
- Phage (with cluster) where this start called: Aglet_88 (A3), AgronaGT15_79 (A3), Anubis_92 (A3), BabyRay_86 (A3), Beauxregard13_86 (A3), BreSam8_88 (A3), BuzzBuzz_81 (A3), Bxz2_82 (A3), Colbster_83 (A3), Cullens_88 (A3), Culver_173 (CQ1), DaHudson_87 (A3), Daishi_86 (A3), Daredevil_139 (DL), Dieselweasel_88 (A3), EpicPhail_88 (A3), Fernando_88 (A3), GingkoMaracino_87 (A3), Grif_85 (A3), Grub_85 (A3), Grum1_87 (A3), GtownJaz_88 (A3), HashRod_88 (A3), Hercules11_87 (A3), JHC117_82 (A3), JenCasNa_88 (A3), Jobu08_83 (A3), KADY_84 (A3), LBerry_89 (A3), LarryKay_87 (A3), Lilith_85 (A3), Louie6_86 (A3), LugYA_90 (A3), MadMarie_85 (A3), Mainiac_87 (A3), Malinsilva_91 (A3), MarQuardt_87 (A3), Marie_85 (A3), Methuselah_80 (A3), Microwolf_83 (A3), Misomonster_83 (A3), MoneyMay_87 (A3), Ollie_88 (A3), P28Green_87 (A3), PGHhamlin_90 (A3), Pembroke_88 (A3), Penny1_87 (A3), Phoebe_88 (A3), PotatoSplit_88 (A3), Rockstar_74 (A3), Rummer_86 (A3), Sabia_85 (A3), Sabinator_85 (A3), Serenity_96 (A2), Snickers_83 (A3), SoYo_84 (A3),

SoilDragon_88 (A3), Soshari_89 (A3), Spike509_88 (A3), Stagni_84 (A3), StepMih_88 (A3), Taurus_88 (A3), Tiffany_86 (A3), Vix_83 (A3), Watson_87 (A3), Wooldri_89 (A3), Zetzy_79 (A3),

Summary by clusters:

There are 5 clusters represented in this pham: CQ2, A3, A2, CQ1, DL,

Info for manual annotations of cluster A2:

- Start number 12 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A3:

- Start number 11 was manually annotated 1 time for cluster A3.
- Start number 12 was manually annotated 63 times for cluster A3.

Info for manual annotations of cluster CQ1:

- Start number 8 was manually annotated 1 time for cluster CQ1.
- Start number 12 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 10 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster DL:

- Start number 12 was manually annotated 1 time for cluster DL.

Gene Information:

Gene: Aglet_88 Start: 47991, Stop: 47776, Start Num: 12

Candidate Starts for Aglet_88:

(Start: 12 @47991 has 66 MA's), (21, 47862), (24, 47850), (28, 47787),

Gene: AgronaGT15_79 Start: 45968, Stop: 45753, Start Num: 12

Candidate Starts for AgronaGT15_79:

(Start: 12 @45968 has 66 MA's), (21, 45839), (24, 45827), (28, 45764),

Gene: Anubis_92 Start: 47968, Stop: 47753, Start Num: 12

Candidate Starts for Anubis_92:

(Start: 12 @47968 has 66 MA's), (14, 47914), (18, 47851), (21, 47839), (24, 47827), (28, 47764),

Gene: BabyRay_86 Start: 47742, Stop: 47533, Start Num: 12

Candidate Starts for BabyRay_86:

(Start: 12 @47742 has 66 MA's), (24, 47601),

Gene: Beauxregard13_86 Start: 47999, Stop: 47784, Start Num: 12

Candidate Starts for Beauxregard13_86:

(Start: 12 @47999 has 66 MA's), (21, 47870), (24, 47858), (28, 47795),

Gene: BreSam8_88 Start: 48070, Stop: 47855, Start Num: 12

Candidate Starts for BreSam8_88:

(Start: 12 @48070 has 66 MA's), (14, 48016), (21, 47941), (24, 47929), (28, 47866),

Gene: BrutonGaster_153 Start: 83399, Stop: 83148, Start Num: 10
Candidate Starts for BrutonGaster_153:
(3, 83483), (Start: 10 @83399 has 2 MA's), (15, 83327), (18, 83276), (20, 83270), (25, 83240),

Gene: BuzzBuzz_81 Start: 48024, Stop: 47809, Start Num: 12
Candidate Starts for BuzzBuzz_81:
(Start: 12 @48024 has 66 MA's), (21, 47895), (24, 47883), (28, 47820),

Gene: Bxz2_82 Start: 48031, Stop: 47816, Start Num: 12
Candidate Starts for Bxz2_82:
(Start: 12 @48031 has 66 MA's), (21, 47902), (24, 47890), (28, 47827),

Gene: Colbster_83 Start: 47999, Stop: 47784, Start Num: 12
Candidate Starts for Colbster_83:
(Start: 12 @47999 has 66 MA's), (21, 47870), (24, 47858), (28, 47795),

Gene: Cullens_88 Start: 47993, Stop: 47778, Start Num: 12
Candidate Starts for Cullens_88:
(Start: 12 @47993 has 66 MA's), (14, 47939), (21, 47864), (24, 47852), (28, 47789),

Gene: Culver_173 Start: 86250, Stop: 86005, Start Num: 12
Candidate Starts for Culver_173:
(Start: 8 @86259 has 1 MA's), (Start: 12 @86250 has 66 MA's), (15, 86184), (17, 86166), (19, 86130),
(22, 86118), (25, 86097), (27, 86034),

Gene: DaHudson_87 Start: 48069, Stop: 47854, Start Num: 12
Candidate Starts for DaHudson_87:
(Start: 12 @48069 has 66 MA's), (14, 48015), (18, 47952), (21, 47940), (24, 47928), (28, 47865),

Gene: Daishi_86 Start: 46865, Stop: 46650, Start Num: 12
Candidate Starts for Daishi_86:
(Start: 12 @46865 has 66 MA's), (21, 46736), (24, 46724), (28, 46661),

Gene: Daredevil_139 Start: 79759, Stop: 79547, Start Num: 12
Candidate Starts for Daredevil_139:
(Start: 12 @79759 has 66 MA's), (15, 79693), (20, 79636), (25, 79609), (28, 79558),

Gene: Dieselweasel_88 Start: 47997, Stop: 47782, Start Num: 12
Candidate Starts for Dieselweasel_88:
(Start: 12 @47997 has 66 MA's), (21, 47868), (24, 47856), (28, 47793),

Gene: EpicPhail_88 Start: 47999, Stop: 47784, Start Num: 12
Candidate Starts for EpicPhail_88:
(Start: 12 @47999 has 66 MA's), (21, 47870), (24, 47858), (28, 47795),

Gene: Fernando_88 Start: 47993, Stop: 47778, Start Num: 12
Candidate Starts for Fernando_88:
(Start: 12 @47993 has 66 MA's), (14, 47939), (21, 47864), (24, 47852), (28, 47789),

Gene: GingkoMaracino_87 Start: 47876, Stop: 47661, Start Num: 12
Candidate Starts for GingkoMaracino_87:
(Start: 12 @47876 has 66 MA's), (21, 47747), (24, 47735), (28, 47672),

Gene: Grif_85 Start: 48072, Stop: 47857, Start Num: 12
Candidate Starts for Grif_85:
(Start: 12 @48072 has 66 MA's), (21, 47943), (24, 47931), (28, 47868),

Gene: Grub_85 Start: 48069, Stop: 47854, Start Num: 12
Candidate Starts for Grub_85:
(Start: 12 @48069 has 66 MA's), (14, 48015), (21, 47940), (24, 47928), (28, 47865),

Gene: Grum1_87 Start: 47998, Stop: 47783, Start Num: 12
Candidate Starts for Grum1_87:
(Start: 12 @47998 has 66 MA's), (21, 47869), (24, 47857), (28, 47794),

Gene: GtownJaz_88 Start: 48077, Stop: 47862, Start Num: 12
Candidate Starts for GtownJaz_88:
(Start: 12 @48077 has 66 MA's), (14, 48023), (18, 47960), (21, 47948), (24, 47936), (28, 47873),

Gene: HashRod_88 Start: 48020, Stop: 47805, Start Num: 12
Candidate Starts for HashRod_88:
(Start: 12 @48020 has 66 MA's), (21, 47891), (24, 47879), (28, 47816),

Gene: Hercules11_87 Start: 48007, Stop: 47792, Start Num: 12
Candidate Starts for Hercules11_87:
(Start: 12 @48007 has 66 MA's), (21, 47878), (24, 47866), (28, 47803),

Gene: Isca_82 Start: 47026, Stop: 46814, Start Num: 11
Candidate Starts for Isca_82:
(4, 47116), (Start: 11 @47026 has 1 MA's), (Start: 12 @47023 has 66 MA's), (14, 46969), (21, 46894),
(23, 46885), (24, 46882),

Gene: JHC117_82 Start: 47993, Stop: 47778, Start Num: 12
Candidate Starts for JHC117_82:
(Start: 12 @47993 has 66 MA's), (21, 47864), (24, 47852), (28, 47789),

Gene: JenCasNa_88 Start: 47993, Stop: 47778, Start Num: 12
Candidate Starts for JenCasNa_88:
(Start: 12 @47993 has 66 MA's), (14, 47939), (21, 47864), (24, 47852), (28, 47789),

Gene: Jobu08_83 Start: 47903, Stop: 47688, Start Num: 12
Candidate Starts for Jobu08_83:
(Start: 12 @47903 has 66 MA's), (13, 47879), (18, 47786), (21, 47774), (24, 47762), (28, 47699),

Gene: KADY_84 Start: 48025, Stop: 47810, Start Num: 12
Candidate Starts for KADY_84:
(Start: 12 @48025 has 66 MA's), (21, 47896), (24, 47884), (28, 47821),

Gene: LBerry_89 Start: 48080, Stop: 47865, Start Num: 12
Candidate Starts for LBerry_89:
(Start: 12 @48080 has 66 MA's), (14, 48026), (18, 47963), (21, 47951), (24, 47939), (28, 47876),

Gene: LarryKay_87 Start: 48029, Stop: 47814, Start Num: 12
Candidate Starts for LarryKay_87:
(Start: 12 @48029 has 66 MA's), (21, 47900), (24, 47888), (28, 47825),

Gene: Lilith_85 Start: 48069, Stop: 47854, Start Num: 12

Candidate Starts for Lilith_85:

(Start: 12 @48069 has 66 MA's), (14, 48015), (21, 47940), (24, 47928), (28, 47865),

Gene: Louie6_86 Start: 48026, Stop: 47811, Start Num: 12

Candidate Starts for Louie6_86:

(Start: 12 @48026 has 66 MA's), (21, 47897), (24, 47885), (28, 47822),

Gene: LugYA_90 Start: 47994, Stop: 47779, Start Num: 12

Candidate Starts for LugYA_90:

(Start: 12 @47994 has 66 MA's), (14, 47940), (21, 47865), (24, 47853), (28, 47790),

Gene: MadMarie_85 Start: 48077, Stop: 47862, Start Num: 12

Candidate Starts for MadMarie_85:

(Start: 12 @48077 has 66 MA's), (14, 48023), (21, 47948), (24, 47936), (28, 47873),

Gene: Mainiac_87 Start: 48069, Stop: 47854, Start Num: 12

Candidate Starts for Mainiac_87:

(Start: 12 @48069 has 66 MA's), (14, 48015), (18, 47952), (21, 47940), (24, 47928), (28, 47865),

Gene: Malinsilva_91 Start: 48068, Stop: 47853, Start Num: 12

Candidate Starts for Malinsilva_91:

(Start: 12 @48068 has 66 MA's), (14, 48014), (21, 47939), (24, 47927), (28, 47864),

Gene: MarQuardt_87 Start: 47997, Stop: 47782, Start Num: 12

Candidate Starts for MarQuardt_87:

(Start: 12 @47997 has 66 MA's), (21, 47868), (24, 47856), (28, 47793),

Gene: Marie_85 Start: 47993, Stop: 47778, Start Num: 12

Candidate Starts for Marie_85:

(Start: 12 @47993 has 66 MA's), (14, 47939), (21, 47864), (24, 47852), (28, 47789),

Gene: Methuselah_80 Start: 48019, Stop: 47804, Start Num: 12

Candidate Starts for Methuselah_80:

(Start: 12 @48019 has 66 MA's), (21, 47890), (24, 47878), (28, 47815),

Gene: Microwolf_83 Start: 48092, Stop: 47877, Start Num: 12

Candidate Starts for Microwolf_83:

(Start: 12 @48092 has 66 MA's), (14, 48038), (21, 47963), (24, 47951), (28, 47888),

Gene: Misomonster_83 Start: 45631, Stop: 45416, Start Num: 12

Candidate Starts for Misomonster_83:

(Start: 12 @45631 has 66 MA's), (21, 45502), (24, 45490), (28, 45427),

Gene: MoneyMay_87 Start: 47993, Stop: 47778, Start Num: 12

Candidate Starts for MoneyMay_87:

(Start: 12 @47993 has 66 MA's), (14, 47939), (21, 47864), (24, 47852), (28, 47789),

Gene: Ollie_88 Start: 47947, Stop: 47732, Start Num: 12

Candidate Starts for Ollie_88:

(Start: 12 @47947 has 66 MA's), (14, 47893), (18, 47830), (21, 47818), (24, 47806), (28, 47743),

Gene: OneUp_155 Start: 86097, Stop: 85849, Start Num: 10

Candidate Starts for OneUp_155:

(1, 86295), (2, 86265), (7, 86148), (Start: 10 @86097 has 2 MA's), (15, 86025), (16, 86019), (19, 85971),

Gene: P28Green_87 Start: 48001, Stop: 47786, Start Num: 12

Candidate Starts for P28Green_87:

(Start: 12 @48001 has 66 MA's), (21, 47872), (24, 47860), (28, 47797),

Gene: PGHhamlin_90 Start: 48068, Stop: 47853, Start Num: 12

Candidate Starts for PGHhamlin_90:

(Start: 12 @48068 has 66 MA's), (14, 48014), (21, 47939), (24, 47927), (28, 47864),

Gene: Pembroke_88 Start: 48077, Stop: 47862, Start Num: 12

Candidate Starts for Pembroke_88:

(Start: 12 @48077 has 66 MA's), (14, 48023), (21, 47948), (24, 47936), (28, 47873),

Gene: Penny1_87 Start: 47999, Stop: 47784, Start Num: 12

Candidate Starts for Penny1_87:

(Start: 12 @47999 has 66 MA's), (21, 47870), (24, 47858), (28, 47795),

Gene: Phoebe_88 Start: 47991, Stop: 47776, Start Num: 12

Candidate Starts for Phoebe_88:

(Start: 12 @47991 has 66 MA's), (21, 47862), (24, 47850), (28, 47787),

Gene: PotatoSplit_88 Start: 47999, Stop: 47784, Start Num: 12

Candidate Starts for PotatoSplit_88:

(Start: 12 @47999 has 66 MA's), (21, 47870), (24, 47858), (28, 47795),

Gene: Rockstar_74 Start: 44830, Stop: 44621, Start Num: 12

Candidate Starts for Rockstar_74:

(Start: 12 @44830 has 66 MA's), (14, 44776),

Gene: Rummer_86 Start: 48023, Stop: 47808, Start Num: 12

Candidate Starts for Rummer_86:

(Start: 12 @48023 has 66 MA's), (21, 47894), (24, 47882), (28, 47819),

Gene: Sabia_85 Start: 48084, Stop: 47869, Start Num: 12

Candidate Starts for Sabia_85:

(Start: 12 @48084 has 66 MA's), (14, 48030), (18, 47967), (21, 47955), (24, 47943), (28, 47880),

Gene: Sabinator_85 Start: 47997, Stop: 47782, Start Num: 12

Candidate Starts for Sabinator_85:

(Start: 12 @47997 has 66 MA's), (21, 47868), (24, 47856), (28, 47793),

Gene: Serenity_96 Start: 49962, Stop: 49750, Start Num: 12

Candidate Starts for Serenity_96:

(6, 50028), (7, 50019), (9, 49974), (Start: 12 @49962 has 66 MA's), (14, 49908), (26, 49809),

Gene: Snickers_83 Start: 48049, Stop: 47834, Start Num: 12

Candidate Starts for Snickers_83:

(Start: 12 @48049 has 66 MA's), (14, 47995), (18, 47932), (21, 47920), (24, 47908), (28, 47845),

Gene: SoYo_84 Start: 47911, Stop: 47696, Start Num: 12

Candidate Starts for SoYo_84:

(Start: 12 @47911 has 66 MA's), (21, 47782), (24, 47770), (28, 47707),

Gene: SoilDragon_88 Start: 47519, Stop: 47304, Start Num: 12

Candidate Starts for SoilDragon_88:

(Start: 12 @47519 has 66 MA's), (13, 47495), (18, 47402), (21, 47390), (24, 47378), (28, 47315),

Gene: Soshari_89 Start: 48019, Stop: 47804, Start Num: 12

Candidate Starts for Soshari_89:

(Start: 12 @48019 has 66 MA's), (21, 47890), (24, 47878), (28, 47815),

Gene: Spike509_88 Start: 48101, Stop: 47886, Start Num: 12

Candidate Starts for Spike509_88:

(Start: 12 @48101 has 66 MA's), (14, 48047), (18, 47984), (21, 47972), (24, 47960), (28, 47897),

Gene: Stagni_84 Start: 48079, Stop: 47864, Start Num: 12

Candidate Starts for Stagni_84:

(Start: 12 @48079 has 66 MA's), (14, 48025), (18, 47962), (21, 47950), (24, 47938), (28, 47875),

Gene: StepMih_88 Start: 48070, Stop: 47855, Start Num: 12

Candidate Starts for StepMih_88:

(Start: 12 @48070 has 66 MA's), (14, 48016), (18, 47953), (21, 47941), (24, 47929), (28, 47866),

Gene: Taurus_88 Start: 47993, Stop: 47778, Start Num: 12

Candidate Starts for Taurus_88:

(Start: 12 @47993 has 66 MA's), (14, 47939), (21, 47864), (24, 47852), (28, 47789),

Gene: Tiffany_86 Start: 47883, Stop: 47668, Start Num: 12

Candidate Starts for Tiffany_86:

(Start: 12 @47883 has 66 MA's), (21, 47754), (24, 47742), (28, 47679),

Gene: Vix_83 Start: 48078, Stop: 47863, Start Num: 12

Candidate Starts for Vix_83:

(Start: 12 @48078 has 66 MA's), (21, 47949), (24, 47937), (28, 47874),

Gene: Watson_87 Start: 48068, Stop: 47853, Start Num: 12

Candidate Starts for Watson_87:

(Start: 12 @48068 has 66 MA's), (14, 48014), (21, 47939), (24, 47927), (28, 47864),

Gene: WilliamBoone_175 Start: 85955, Stop: 85701, Start Num: 8

Candidate Starts for WilliamBoone_175:

(Start: 8 @85955 has 1 MA's), (Start: 12 @85946 has 66 MA's), (15, 85880), (17, 85862), (19, 85826), (22, 85814), (25, 85793), (27, 85730),

Gene: Wooldri_89 Start: 47904, Stop: 47689, Start Num: 12

Candidate Starts for Wooldri_89:

(Start: 12 @47904 has 66 MA's), (21, 47775), (24, 47763), (28, 47700),

Gene: Zetzy_79 Start: 45457, Stop: 45248, Start Num: 12

Candidate Starts for Zetzy_79:

(5, 45535), (Start: 12 @45457 has 66 MA's), (18, 45340), (21, 45328), (24, 45316),