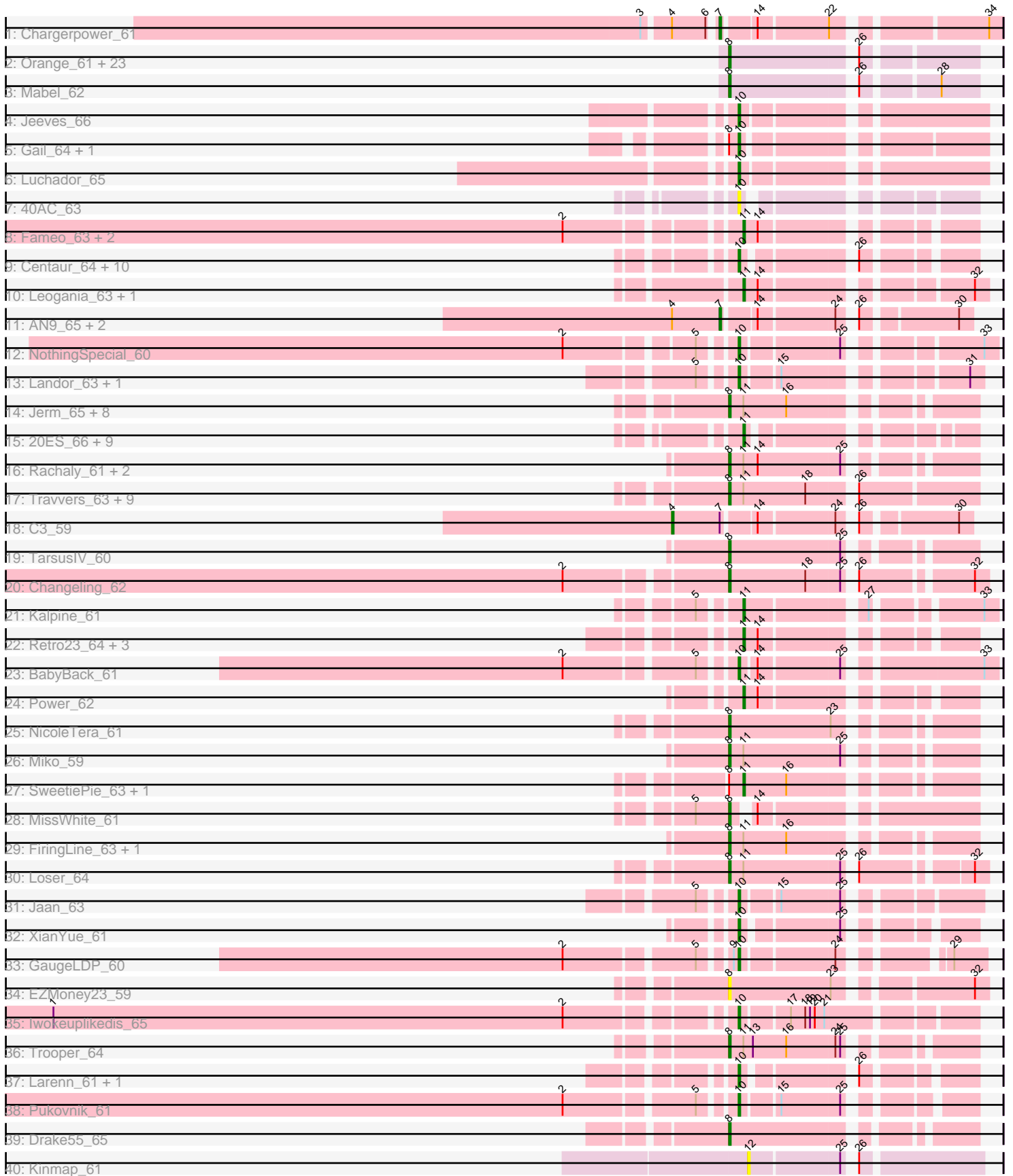


Pham 202797



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 202797 Report

This analysis was run 01/18/25 on database version 583.

Pham number 202797 has 114 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_61
- Track 2 : Orange_61, MaCh_62, Bowtie_63, Et2Brutus_61, Gilberta_63, Petersenfast_60, Sham4_62, Timothy_62, TinyTimmy_62, Bud_61, Salz_61, Flaverint_63, Hutc2_61, Fibonacci_62, Insomnia_63, Mulciber_61, Aneem_63, Joselito_63, Lucivia_63, Bachome_64, Snape_62, Ebony_62, Jabith_63, Munch_62
- Track 3 : Mabel_62
- Track 4 : Jeeves_66
- Track 5 : Gail_64, Sunhee_65
- Track 6 : Luchador_65
- Track 7 : 40AC_63
- Track 8 : Fameo_63, Heffalump_62, QueenB2_62
- Track 9 : Centaur_64, Flare16_63, WideWale_64, Piro94_63, Updawg_64, HarryHoudini_64, Equemioh13_63, MiculUcigas_63, Baehexic_62, NaSiaTalie_63, Sknot_63
- Track 10 : Leogania_63, BiancaTri92_63
- Track 11 : AN9_65, ANI8_65, VC3_65
- Track 12 : NothingSpecial_60
- Track 13 : Landor_63, IronMan_62
- Track 14 : Jerm_65, LilTurb_64, Agape74_65, AbbyPaige_65, SemperFi_64, Turbido_64, Buggy_65, Georgie2_64, Crucio_63
- Track 15 : 20ES_66, Deloris_64, LadyBird_68, CRB1_66, VA6_64, First_0065, Benvolio_60, BengiVuitton_64, Echild_63, AN3_66
- Track 16 : Rachaly_61, BobSwaget_58, Lokk_59
- Track 17 : Travvers_63, Pomar16_63, D29_59.1, Kerberos_64, D32_63, Tomathan_64, Naji_64, Duplo_64, DBQu4n_64, StarStuff_64
- Track 18 : C3_59
- Track 19 : TarsusIV_60
- Track 20 : Changeling_62
- Track 21 : Kalpine_61
- Track 22 : Retro23_64, DudeLittle_62, Dalmatian_64, Anselm_64
- Track 23 : BabyBack_61
- Track 24 : Power_62
- Track 25 : NicoleTera_61
- Track 26 : Miko_59
- Track 27 : SweetiePie_63, SnapTap_63
- Track 28 : MissWhite_61
- Track 29 : FiringLine_63, QueenBeesly_63

- Track 30 : Loser_64
- Track 31 : Jaan_63
- Track 32 : XianYue_61
- Track 33 : GaugeLDP_60
- Track 34 : EZMoney23_59
- Track 35 : Iwokeuplikedis_65
- Track 36 : Trooper_64
- Track 37 : Larenn_61, Malec_62
- Track 38 : Pukovnik_61
- Track 39 : Drake55_65
- Track 40 : Kinmap_61

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 55 of the 104 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbyPaige_65, Agape74_65, Aneem_63, Bachome_64, BobSwaget_58, Bowtie_63, Bud_61, Buggy_65, Changeling_62, Crucio_63, D29_59.1, D32_63, DBQu4n_64, Drake55_65, Duplo_64, EZMoney23_59, Ebony_62, Et2Brutus_61, Fibonacci_62, FiringLine_63, Flaverint_63, Georgie2_64, Gilberta_63, Hutc2_61, Insomnia_63, Jabith_63, Jerm_65, Joselito_63, Kerberos_64, LilTurb_64, Loko_59, Loser_64, Lucivia_63, MaCh_62, Mabel_62, Miko_59, MissWhite_61, Mulciber_61, Munch_62, Naji_64, NicoleTera_61, Orange_61, Petersenfast_60, Pomar16_63, QueenBeesly_63, Rachaly_61, Salz_61, SemperFi_64, Sham4_62, Snape_62, StarStuff_64, TarsusIV_60, Timothy_62, TinyTimmy_62, Tomathan_64, Travvers_63, Trooper_64, Turbido_64,

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

- Gail_64, SnapTap_63, Sunhee_65, SweetiePie_63,

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

- 20ES_66, 40AC_63, AN3_66, AN9_65, ANI8_65, Anselm_64, BabyBack_61, Baehexic_62, BengiVuitton_64, Benvolio_60, BiancaTri92_63, C3_59, CRB1_66, Centaur_64, Chargerpower_61, Dalmatian_64, Deloris_64, DudeLittle_62, Echild_63, Equemioh13_63, Fameo_63, First_0065, Flare16_63, GaugeLDP_60, HarryHoudini_64, Heffalump_62, IronMan_62, Iwokeuplikedis_65, Jaan_63, Jeeves_66, Kalpine_61, Kinmap_61, LadyBird_68, Landor_63, Larenn_61, Leogania_63, Luchador_65, Malec_62, MiculUcigas_63, NaSiaTalie_63, NothingSpecial_60, Piro94_63, Power_62, Pukovnik_61, QueenB2_62, Retro23_64, Sknot_63, Updawg_64, VA6_64, VC3_65, WideWale_64, XianYue_61,

Summary by start number:

Start 4:

- Found in 5 of 114 (4.4%) of genes in pham
- Manual Annotations of this start: 1 of 104
- Called 20.0% of time when present
- Phage (with cluster) where this start called: C3_59 (A2),

Start 7:

- Found in 5 of 114 (4.4%) of genes in pham
- Manual Annotations of this start: 4 of 104
- Called 80.0% of time when present
- Phage (with cluster) where this start called: AN9_65 (A2), ANI8_65 (A2), Chargerpower_61 (A), VC3_65 (A2),

Start 8:

- Found in 62 of 114 (54.4%) of genes in pham
- Manual Annotations of this start: 55 of 104
- Called 93.5% of time when present
- Phage (with cluster) where this start called: AbbyPaige_65 (A2), Agape74_65 (A2), Aneem_63 (A11), Bachome_64 (A11), BobSwaget_58 (A2), Bowtie_63 (A11), Bud_61 (A11), Buggy_65 (A2), Changeling_62 (A2), Crucio_63 (A2), D29_59.1 (A2), D32_63 (A2), DBQu4n_64 (A2), Drake55_65 (A2), Duplo_64 (A2), EZMoney23_59 (A2), Ebony_62 (A11), Et2Brutus_61 (A11), Fibonacci_62 (A11), FiringLine_63 (A2), Flaverint_63 (A11), Georgie2_64 (A2), Gilberta_63 (A11), Hutc2_61 (A11), Insomnia_63 (A11), Jabith_63 (A11), Jerm_65 (A2), Joselito_63 (A11), Kerberos_64 (A2), LiITurb_64 (A2), Lokk_59 (A2), Loser_64 (A2), Lucivia_63 (A11), MaCh_62 (A11), Mabel_62 (A11), Miko_59 (A2), MissWhite_61 (A2), Mulciber_61 (A11), Munch_62 (A11), Naji_64 (A2), NicoleTera_61 (A2), Orange_61 (A11), Petersenfast_60 (A11), Pomar16_63 (A2), QueenBeesly_63 (A2), Rachaly_61 (A2), Salz_61 (A11), SemperFi_64 (A2), Sham4_62 (A11), Snape_62 (A11), StarStuff_64 (A2), TarsusIV_60 (A2), Timothy_62 (A11), TinyTimmy_62 (A11), Tomathan_64 (A2), Travvers_63 (A2), Trooper_64 (A2), Turbido_64 (A2),

Start 10:

- Found in 27 of 114 (23.7%) of genes in pham
- Manual Annotations of this start: 24 of 104
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 40AC_63 (A17), BabyBack_61 (A2), Baehexic_62 (A2), Centaur_64 (A2), Equemioh13_63 (A2), Flare16_63 (A2), Gail_64 (A14), GaugeLDP_60 (A2), HarryHoudini_64 (A2), IronMan_62 (A2), Iwokeuplikedis_65 (A2), Jaan_63 (A2), Jeeves_66 (A14), Landor_63 (A2), Larenn_61 (A2), Luchador_65 (A14), Malec_62 (A2), MiculUcigas_63 (A2), NaSiaTalie_63 (A2), NothingSpecial_60 (A2), Piro94_63 (A2), Pukovnik_61 (A2), Sknot_63 (A2), Sunhee_65 (A14), Updawg_64 (A2), WideWale_64 (A2), XianYue_61 (A2),

Start 11:

- Found in 50 of 114 (43.9%) of genes in pham
- Manual Annotations of this start: 20 of 104
- Called 46.0% of time when present
- Phage (with cluster) where this start called: 20ES_66 (A2), AN3_66 (A2), Anselm_64 (A2), BengiVuitton_64 (A2), Benvolio_60 (A2), BiancaTri92_63 (A2), CRB1_66 (A2), Dalmatian_64 (A2), Deloris_64 (A2), DudeLittle_62 (A2), Echild_63 (A2), Fameo_63 (A2), First_0065 (A2), Heffalump_62 (A2), Kalpine_61 (A2), LadyBird_68 (A2), Leogania_63 (A2), Power_62 (A2), QueenB2_62 (A2), Retro23_64 (A2), SnapTap_63 (A2), SweetiePie_63 (A2), VA6_64 (A2),

Start 12:

- Found in 1 of 114 (0.9%) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kinmap_61 (A21),

Summary by clusters:

There are 6 clusters represented in this pham: A, A14, A17, A11, A21, A2,

Info for manual annotations of cluster A:

- Start number 7 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A11:

- Start number 8 was manually annotated 24 times for cluster A11.

Info for manual annotations of cluster A14:

- Start number 10 was manually annotated 3 times for cluster A14.

Info for manual annotations of cluster A2:

- Start number 4 was manually annotated 1 time for cluster A2.
- Start number 7 was manually annotated 3 times for cluster A2.
- Start number 8 was manually annotated 31 times for cluster A2.
- Start number 10 was manually annotated 21 times for cluster A2.
- Start number 11 was manually annotated 20 times for cluster A2.

Gene Information:

Gene: 20ES_66 Start: 40354, Stop: 40241, Start Num: 11

Candidate Starts for 20ES_66:

(Start: 11 @40354 has 20 MA's),

Gene: 40AC_63 Start: 41089, Stop: 40973, Start Num: 10

Candidate Starts for 40AC_63:

(Start: 10 @41089 has 24 MA's),

Gene: AN3_66 Start: 39069, Stop: 38956, Start Num: 11

Candidate Starts for AN3_66:

(Start: 11 @39069 has 20 MA's),

Gene: AN9_65 Start: 40106, Stop: 39975, Start Num: 7

Candidate Starts for AN9_65:

(Start: 4 @40136 has 1 MA's), (Start: 7 @40106 has 4 MA's), (14, 40088), (24, 40043), (26, 40037), (30, 39983),

Gene: ANI8_65 Start: 40106, Stop: 39975, Start Num: 7

Candidate Starts for ANI8_65:

(Start: 4 @40136 has 1 MA's), (Start: 7 @40106 has 4 MA's), (14, 40088), (24, 40043), (26, 40037), (30, 39983),

Gene: AbbyPaige_65 Start: 40341, Stop: 40210, Start Num: 8

Candidate Starts for AbbyPaige_65:

(Start: 8 @40341 has 55 MA's), (Start: 11 @40332 has 20 MA's), (16, 40305),

Gene: Agape74_65 Start: 40335, Stop: 40204, Start Num: 8

Candidate Starts for Agape74_65:

(Start: 8 @40335 has 55 MA's), (Start: 11 @40326 has 20 MA's), (16, 40299),

Gene: Aneem_63 Start: 39459, Stop: 39322, Start Num: 8

Candidate Starts for Aneem_63:

(Start: 8 @39459 has 55 MA's), (26, 39387),

Gene: Anselm_64 Start: 40239, Stop: 40120, Start Num: 11

Candidate Starts for Anselm_64:

(Start: 11 @40239 has 20 MA's), (14, 40230),

Gene: BabyBack_61 Start: 40331, Stop: 40191, Start Num: 10

Candidate Starts for BabyBack_61:

(2, 40424), (5, 40349), (Start: 10 @40331 has 24 MA's), (14, 40322), (25, 40274), (33, 40199),

Gene: Bachome_64 Start: 39439, Stop: 39302, Start Num: 8

Candidate Starts for Bachome_64:

(Start: 8 @39439 has 55 MA's), (26, 39367),

Gene: Baehexic_62 Start: 39801, Stop: 39685, Start Num: 10

Candidate Starts for Baehexic_62:

(Start: 10 @39801 has 24 MA's), (26, 39744),

Gene: BengiVuitton_64 Start: 40331, Stop: 40212, Start Num: 11

Candidate Starts for BengiVuitton_64:

(Start: 11 @40331 has 20 MA's),

Gene: Benvolio_60 Start: 39343, Stop: 39227, Start Num: 11

Candidate Starts for Benvolio_60:

(Start: 11 @39343 has 20 MA's),

Gene: BiancaTri92_63 Start: 40390, Stop: 40262, Start Num: 11

Candidate Starts for BiancaTri92_63:

(Start: 11 @40390 has 20 MA's), (14, 40381), (32, 40270),

Gene: BobSwaget_58 Start: 38604, Stop: 38473, Start Num: 8

Candidate Starts for BobSwaget_58:

(Start: 8 @38604 has 55 MA's), (Start: 11 @38595 has 20 MA's), (14, 38586), (25, 38535),

Gene: Bowtie_63 Start: 39466, Stop: 39329, Start Num: 8

Candidate Starts for Bowtie_63:

(Start: 8 @39466 has 55 MA's), (26, 39394),

Gene: Bud_61 Start: 39013, Stop: 38876, Start Num: 8

Candidate Starts for Bud_61:

(Start: 8 @39013 has 55 MA's), (26, 38941),

Gene: Buggy_65 Start: 40392, Stop: 40261, Start Num: 8

Candidate Starts for Buggy_65:

(Start: 8 @40392 has 55 MA's), (Start: 11 @40383 has 20 MA's), (16, 40356),

Gene: C3_59 Start: 40136, Stop: 39975, Start Num: 4
Candidate Starts for C3_59:
(Start: 4 @40136 has 1 MA's), (Start: 7 @40106 has 4 MA's), (14, 40088), (24, 40043), (26, 40037),
(30, 39983),

Gene: CRB1_66 Start: 40877, Stop: 40758, Start Num: 11
Candidate Starts for CRB1_66:
(Start: 11 @40877 has 20 MA's),

Gene: Centaur_64 Start: 40015, Stop: 39899, Start Num: 10
Candidate Starts for Centaur_64:
(Start: 10 @40015 has 24 MA's), (26, 39958),

Gene: Changeling_62 Start: 40439, Stop: 40296, Start Num: 8
Candidate Starts for Changeling_62:
(2, 40529), (Start: 8 @40439 has 55 MA's), (18, 40391), (25, 40370), (26, 40367), (32, 40304),

Gene: Chargerpower_61 Start: 38578, Stop: 38429, Start Num: 7
Candidate Starts for Chargerpower_61:
(3, 38617), (Start: 4 @38602 has 1 MA's), (6, 38581), (Start: 7 @38578 has 4 MA's), (14, 38560), (22,
38518), (34, 38437),

Gene: Crucio_63 Start: 40018, Stop: 39887, Start Num: 8
Candidate Starts for Crucio_63:
(Start: 8 @40018 has 55 MA's), (Start: 11 @40009 has 20 MA's), (16, 39982),

Gene: D29_59.1 Start: 39706, Stop: 39563, Start Num: 8
Candidate Starts for D29_59.1:
(Start: 8 @39706 has 55 MA's), (Start: 11 @39697 has 20 MA's), (18, 39658), (26, 39634),

Gene: D32_63 Start: 39706, Stop: 39563, Start Num: 8
Candidate Starts for D32_63:
(Start: 8 @39706 has 55 MA's), (Start: 11 @39697 has 20 MA's), (18, 39658), (26, 39634),

Gene: DBQu4n_64 Start: 39687, Stop: 39544, Start Num: 8
Candidate Starts for DBQu4n_64:
(Start: 8 @39687 has 55 MA's), (Start: 11 @39678 has 20 MA's), (18, 39639), (26, 39615),

Gene: Dalmatian_64 Start: 40212, Stop: 40093, Start Num: 11
Candidate Starts for Dalmatian_64:
(Start: 11 @40212 has 20 MA's), (14, 40203),

Gene: Deloris_64 Start: 40027, Stop: 39908, Start Num: 11
Candidate Starts for Deloris_64:
(Start: 11 @40027 has 20 MA's),

Gene: Drake55_65 Start: 40115, Stop: 39984, Start Num: 8
Candidate Starts for Drake55_65:
(Start: 8 @40115 has 55 MA's),

Gene: DudeLittle_62 Start: 39978, Stop: 39859, Start Num: 11
Candidate Starts for DudeLittle_62:

(Start: 11 @39978 has 20 MA's), (14, 39969),

Gene: Duplo_64 Start: 39743, Stop: 39600, Start Num: 8

Candidate Starts for Duplo_64:

(Start: 8 @39743 has 55 MA's), (Start: 11 @39734 has 20 MA's), (18, 39695), (26, 39671),

Gene: EZMoney23_59 Start: 39508, Stop: 39365, Start Num: 8

Candidate Starts for EZMoney23_59:

(Start: 8 @39508 has 55 MA's), (23, 39445), (32, 39373),

Gene: Ebony_62 Start: 39030, Stop: 38893, Start Num: 8

Candidate Starts for Ebony_62:

(Start: 8 @39030 has 55 MA's), (26, 38958),

Gene: Echild_63 Start: 39367, Stop: 39251, Start Num: 11

Candidate Starts for Echild_63:

(Start: 11 @39367 has 20 MA's),

Gene: Equemioh13_63 Start: 39920, Stop: 39804, Start Num: 10

Candidate Starts for Equemioh13_63:

(Start: 10 @39920 has 24 MA's), (26, 39863),

Gene: Et2Brutus_61 Start: 38993, Stop: 38856, Start Num: 8

Candidate Starts for Et2Brutus_61:

(Start: 8 @38993 has 55 MA's), (26, 38921),

Gene: Fameo_63 Start: 40337, Stop: 40218, Start Num: 11

Candidate Starts for Fameo_63:

(2, 40430), (Start: 11 @40337 has 20 MA's), (14, 40328),

Gene: Fibonacci_62 Start: 38999, Stop: 38862, Start Num: 8

Candidate Starts for Fibonacci_62:

(Start: 8 @38999 has 55 MA's), (26, 38927),

Gene: FiringLine_63 Start: 39999, Stop: 39868, Start Num: 8

Candidate Starts for FiringLine_63:

(Start: 8 @39999 has 55 MA's), (Start: 11 @39990 has 20 MA's), (16, 39963),

Gene: First_0065 Start: 40254, Stop: 40141, Start Num: 11

Candidate Starts for First_0065:

(Start: 11 @40254 has 20 MA's),

Gene: Flare16_63 Start: 39676, Stop: 39560, Start Num: 10

Candidate Starts for Flare16_63:

(Start: 10 @39676 has 24 MA's), (26, 39619),

Gene: Flaverint_63 Start: 39457, Stop: 39320, Start Num: 8

Candidate Starts for Flaverint_63:

(Start: 8 @39457 has 55 MA's), (26, 39385),

Gene: Gail_64 Start: 40781, Stop: 40653, Start Num: 10

Candidate Starts for Gail_64:

(Start: 8 @40787 has 55 MA's), (Start: 10 @40781 has 24 MA's),

Gene: GaugeLDP_60 Start: 39857, Stop: 39732, Start Num: 10
Candidate Starts for GaugeLDP_60:
(2, 39950), (5, 39875), (9, 39860), (Start: 10 @39857 has 24 MA's), (24, 39803), (29, 39752),

Gene: Georgie2_64 Start: 40044, Stop: 39913, Start Num: 8
Candidate Starts for Georgie2_64:
(Start: 8 @40044 has 55 MA's), (Start: 11 @40035 has 20 MA's), (16, 40008),

Gene: Gilberta_63 Start: 39450, Stop: 39313, Start Num: 8
Candidate Starts for Gilberta_63:
(Start: 8 @39450 has 55 MA's), (26, 39378),

Gene: HarryHoudini_64 Start: 40119, Stop: 40003, Start Num: 10
Candidate Starts for HarryHoudini_64:
(Start: 10 @40119 has 24 MA's), (26, 40062),

Gene: Heffalump_62 Start: 40805, Stop: 40686, Start Num: 11
Candidate Starts for Heffalump_62:
(2, 40898), (Start: 11 @40805 has 20 MA's), (14, 40796),

Gene: Hutc2_61 Start: 38999, Stop: 38862, Start Num: 8
Candidate Starts for Hutc2_61:
(Start: 8 @38999 has 55 MA's), (26, 38927),

Gene: Insomnia_63 Start: 39510, Stop: 39373, Start Num: 8
Candidate Starts for Insomnia_63:
(Start: 8 @39510 has 55 MA's), (26, 39438),

Gene: IronMan_62 Start: 40812, Stop: 40687, Start Num: 10
Candidate Starts for IronMan_62:
(5, 40830), (Start: 10 @40812 has 24 MA's), (15, 40791), (31, 40695),

Gene: Iwokeuplikedis_65 Start: 39836, Stop: 39705, Start Num: 10
Candidate Starts for Iwokeuplikedis_65:
(1, 40247), (2, 39926), (Start: 10 @39836 has 24 MA's), (17, 39809), (18, 39800), (19, 39797), (20, 39794), (21, 39788),

Gene: Jaan_63 Start: 40984, Stop: 40859, Start Num: 10
Candidate Starts for Jaan_63:
(5, 41002), (Start: 10 @40984 has 24 MA's), (15, 40963), (25, 40927),

Gene: Jabith_63 Start: 39511, Stop: 39374, Start Num: 8
Candidate Starts for Jabith_63:
(Start: 8 @39511 has 55 MA's), (26, 39439),

Gene: Jeeves_66 Start: 39766, Stop: 39632, Start Num: 10
Candidate Starts for Jeeves_66:
(Start: 10 @39766 has 24 MA's),

Gene: Jerm_65 Start: 40407, Stop: 40276, Start Num: 8
Candidate Starts for Jerm_65:
(Start: 8 @40407 has 55 MA's), (Start: 11 @40398 has 20 MA's), (16, 40371),

Gene: Joselito_63 Start: 39459, Stop: 39322, Start Num: 8

Candidate Starts for Joselito_63:

(Start: 8 @39459 has 55 MA's), (26, 39387),

Gene: Kalpine_61 Start: 40096, Stop: 39965, Start Num: 11

Candidate Starts for Kalpine_61:

(5, 40117), (Start: 11 @40096 has 20 MA's), (27, 40030), (33, 39973),

Gene: Kerberos_64 Start: 39705, Stop: 39562, Start Num: 8

Candidate Starts for Kerberos_64:

(Start: 8 @39705 has 55 MA's), (Start: 11 @39696 has 20 MA's), (18, 39657), (26, 39633),

Gene: Kinmap_61 Start: 38456, Stop: 38328, Start Num: 12

Candidate Starts for Kinmap_61:

(12, 38456), (25, 38402), (26, 38399),

Gene: LadyBird_68 Start: 40839, Stop: 40720, Start Num: 11

Candidate Starts for LadyBird_68:

(Start: 11 @40839 has 20 MA's),

Gene: Landor_63 Start: 40890, Stop: 40765, Start Num: 10

Candidate Starts for Landor_63:

(5, 40908), (Start: 10 @40890 has 24 MA's), (15, 40869), (31, 40773),

Gene: Larenn_61 Start: 39953, Stop: 39837, Start Num: 10

Candidate Starts for Larenn_61:

(Start: 10 @39953 has 24 MA's), (26, 39896),

Gene: Leogania_63 Start: 40768, Stop: 40640, Start Num: 11

Candidate Starts for Leogania_63:

(Start: 11 @40768 has 20 MA's), (14, 40759), (32, 40648),

Gene: LilTurb_64 Start: 40289, Stop: 40158, Start Num: 8

Candidate Starts for LilTurb_64:

(Start: 8 @40289 has 55 MA's), (Start: 11 @40280 has 20 MA's), (16, 40253),

Gene: Lokk_59 Start: 39228, Stop: 39097, Start Num: 8

Candidate Starts for Lokk_59:

(Start: 8 @39228 has 55 MA's), (Start: 11 @39219 has 20 MA's), (14, 39210), (25, 39159),

Gene: Loser_64 Start: 40496, Stop: 40356, Start Num: 8

Candidate Starts for Loser_64:

(Start: 8 @40496 has 55 MA's), (Start: 11 @40487 has 20 MA's), (25, 40427), (26, 40424), (32, 40364),

Gene: Luchador_65 Start: 41349, Stop: 41215, Start Num: 10

Candidate Starts for Luchador_65:

(Start: 10 @41349 has 24 MA's),

Gene: Lucivia_63 Start: 39508, Stop: 39371, Start Num: 8

Candidate Starts for Lucivia_63:

(Start: 8 @39508 has 55 MA's), (26, 39436),

Gene: MaCh_62 Start: 39438, Stop: 39301, Start Num: 8
Candidate Starts for MaCh_62:
(Start: 8 @39438 has 55 MA's), (26, 39366),

Gene: Mabel_62 Start: 39455, Stop: 39318, Start Num: 8
Candidate Starts for Mabel_62:
(Start: 8 @39455 has 55 MA's), (26, 39383), (28, 39341),

Gene: Malec_62 Start: 40520, Stop: 40404, Start Num: 10
Candidate Starts for Malec_62:
(Start: 10 @40520 has 24 MA's), (26, 40463),

Gene: MiculUcigas_63 Start: 39579, Stop: 39463, Start Num: 10
Candidate Starts for MiculUcigas_63:
(Start: 10 @39579 has 24 MA's), (26, 39522),

Gene: Miko_59 Start: 40006, Stop: 39875, Start Num: 8
Candidate Starts for Miko_59:
(Start: 8 @40006 has 55 MA's), (Start: 11 @39997 has 20 MA's), (25, 39937),

Gene: MissWhite_61 Start: 38488, Stop: 38360, Start Num: 8
Candidate Starts for MissWhite_61:
(5, 38506), (Start: 8 @38488 has 55 MA's), (14, 38479),

Gene: Mulciber_61 Start: 38996, Stop: 38859, Start Num: 8
Candidate Starts for Mulciber_61:
(Start: 8 @38996 has 55 MA's), (26, 38924),

Gene: Munch_62 Start: 39459, Stop: 39322, Start Num: 8
Candidate Starts for Munch_62:
(Start: 8 @39459 has 55 MA's), (26, 39387),

Gene: NaSiaTalie_63 Start: 39673, Stop: 39557, Start Num: 10
Candidate Starts for NaSiaTalie_63:
(Start: 10 @39673 has 24 MA's), (26, 39616),

Gene: Naji_64 Start: 39706, Stop: 39563, Start Num: 8
Candidate Starts for Naji_64:
(Start: 8 @39706 has 55 MA's), (Start: 11 @39697 has 20 MA's), (18, 39658), (26, 39634),

Gene: NicoleTera_61 Start: 39996, Stop: 39865, Start Num: 8
Candidate Starts for NicoleTera_61:
(Start: 8 @39996 has 55 MA's), (23, 39933),

Gene: NothingSpecial_60 Start: 40211, Stop: 40077, Start Num: 10
Candidate Starts for NothingSpecial_60:
(2, 40301), (5, 40229), (Start: 10 @40211 has 24 MA's), (25, 40154), (33, 40085),

Gene: Orange_61 Start: 39008, Stop: 38871, Start Num: 8
Candidate Starts for Orange_61:
(Start: 8 @39008 has 55 MA's), (26, 38936),

Gene: Petersenfast_60 Start: 39007, Stop: 38870, Start Num: 8

Candidate Starts for Petersenfast_60:
(Start: 8 @39007 has 55 MA's), (26, 38935),

Gene: Piro94_63 Start: 40026, Stop: 39910, Start Num: 10
Candidate Starts for Piro94_63:
(Start: 10 @40026 has 24 MA's), (26, 39969),

Gene: Pomar16_63 Start: 39746, Stop: 39603, Start Num: 8
Candidate Starts for Pomar16_63:
(Start: 8 @39746 has 55 MA's), (Start: 11 @39737 has 20 MA's), (18, 39698), (26, 39674),

Gene: Power_62 Start: 40040, Stop: 39921, Start Num: 11
Candidate Starts for Power_62:
(Start: 11 @40040 has 20 MA's), (14, 40031),

Gene: Pukovnik_61 Start: 40533, Stop: 40414, Start Num: 10
Candidate Starts for Pukovnik_61:
(2, 40626), (5, 40551), (Start: 10 @40533 has 24 MA's), (15, 40512), (25, 40476),

Gene: QueenB2_62 Start: 40018, Stop: 39899, Start Num: 11
Candidate Starts for QueenB2_62:
(2, 40111), (Start: 11 @40018 has 20 MA's), (14, 40009),

Gene: QueenBeesly_63 Start: 39999, Stop: 39868, Start Num: 8
Candidate Starts for QueenBeesly_63:
(Start: 8 @39999 has 55 MA's), (Start: 11 @39990 has 20 MA's), (16, 39963),

Gene: Rachaly_61 Start: 40151, Stop: 40020, Start Num: 8
Candidate Starts for Rachaly_61:
(Start: 8 @40151 has 55 MA's), (Start: 11 @40142 has 20 MA's), (14, 40133), (25, 40082),

Gene: Retro23_64 Start: 40232, Stop: 40113, Start Num: 11
Candidate Starts for Retro23_64:
(Start: 11 @40232 has 20 MA's), (14, 40223),

Gene: Salz_61 Start: 38978, Stop: 38841, Start Num: 8
Candidate Starts for Salz_61:
(Start: 8 @38978 has 55 MA's), (26, 38906),

Gene: SemperFi_64 Start: 40267, Stop: 40136, Start Num: 8
Candidate Starts for SemperFi_64:
(Start: 8 @40267 has 55 MA's), (Start: 11 @40258 has 20 MA's), (16, 40231),

Gene: Sham4_62 Start: 39006, Stop: 38869, Start Num: 8
Candidate Starts for Sham4_62:
(Start: 8 @39006 has 55 MA's), (26, 38934),

Gene: Sknot_63 Start: 39676, Stop: 39560, Start Num: 10
Candidate Starts for Sknot_63:
(Start: 10 @39676 has 24 MA's), (26, 39619),

Gene: SnapTap_63 Start: 40069, Stop: 39947, Start Num: 11
Candidate Starts for SnapTap_63:

(Start: 8 @40078 has 55 MA's), (Start: 11 @40069 has 20 MA's), (16, 40042),

Gene: Snape_62 Start: 38998, Stop: 38861, Start Num: 8

Candidate Starts for Snape_62:

(Start: 8 @38998 has 55 MA's), (26, 38926),

Gene: StarStuff_64 Start: 39708, Stop: 39565, Start Num: 8

Candidate Starts for StarStuff_64:

(Start: 8 @39708 has 55 MA's), (Start: 11 @39699 has 20 MA's), (18, 39660), (26, 39636),

Gene: Sunhee_65 Start: 39237, Stop: 39109, Start Num: 10

Candidate Starts for Sunhee_65:

(Start: 8 @39243 has 55 MA's), (Start: 10 @39237 has 24 MA's),

Gene: SweetiePie_63 Start: 40201, Stop: 40079, Start Num: 11

Candidate Starts for SweetiePie_63:

(Start: 8 @40210 has 55 MA's), (Start: 11 @40201 has 20 MA's), (16, 40174),

Gene: TarsusIV_60 Start: 39672, Stop: 39541, Start Num: 8

Candidate Starts for TarsusIV_60:

(Start: 8 @39672 has 55 MA's), (25, 39603),

Gene: Timothy_62 Start: 38975, Stop: 38838, Start Num: 8

Candidate Starts for Timothy_62:

(Start: 8 @38975 has 55 MA's), (26, 38903),

Gene: TinyTimmy_62 Start: 39024, Stop: 38887, Start Num: 8

Candidate Starts for TinyTimmy_62:

(Start: 8 @39024 has 55 MA's), (26, 38952),

Gene: Tomathan_64 Start: 39755, Stop: 39612, Start Num: 8

Candidate Starts for Tomathan_64:

(Start: 8 @39755 has 55 MA's), (Start: 11 @39746 has 20 MA's), (18, 39707), (26, 39683),

Gene: Travvers_63 Start: 39705, Stop: 39562, Start Num: 8

Candidate Starts for Travvers_63:

(Start: 8 @39705 has 55 MA's), (Start: 11 @39696 has 20 MA's), (18, 39657), (26, 39633),

Gene: Trooper_64 Start: 40399, Stop: 40268, Start Num: 8

Candidate Starts for Trooper_64:

(Start: 8 @40399 has 55 MA's), (Start: 11 @40390 has 20 MA's), (13, 40384), (16, 40363), (24, 40333), (25, 40330),

Gene: Turbido_64 Start: 40285, Stop: 40154, Start Num: 8

Candidate Starts for Turbido_64:

(Start: 8 @40285 has 55 MA's), (Start: 11 @40276 has 20 MA's), (16, 40249),

Gene: Updawg_64 Start: 39920, Stop: 39804, Start Num: 10

Candidate Starts for Updawg_64:

(Start: 10 @39920 has 24 MA's), (26, 39863),

Gene: VA6_64 Start: 40247, Stop: 40134, Start Num: 11

Candidate Starts for VA6_64:

(Start: 11 @40247 has 20 MA's),

Gene: VC3_65 Start: 40106, Stop: 39975, Start Num: 7

Candidate Starts for VC3_65:

(Start: 4 @40136 has 1 MA's), (Start: 7 @40106 has 4 MA's), (14, 40088), (24, 40043), (26, 40037), (30, 39983),

Gene: WideWale_64 Start: 39920, Stop: 39804, Start Num: 10

Candidate Starts for WideWale_64:

(Start: 10 @39920 has 24 MA's), (26, 39863),

Gene: XianYue_61 Start: 39423, Stop: 39307, Start Num: 10

Candidate Starts for XianYue_61:

(Start: 10 @39423 has 24 MA's), (25, 39369),