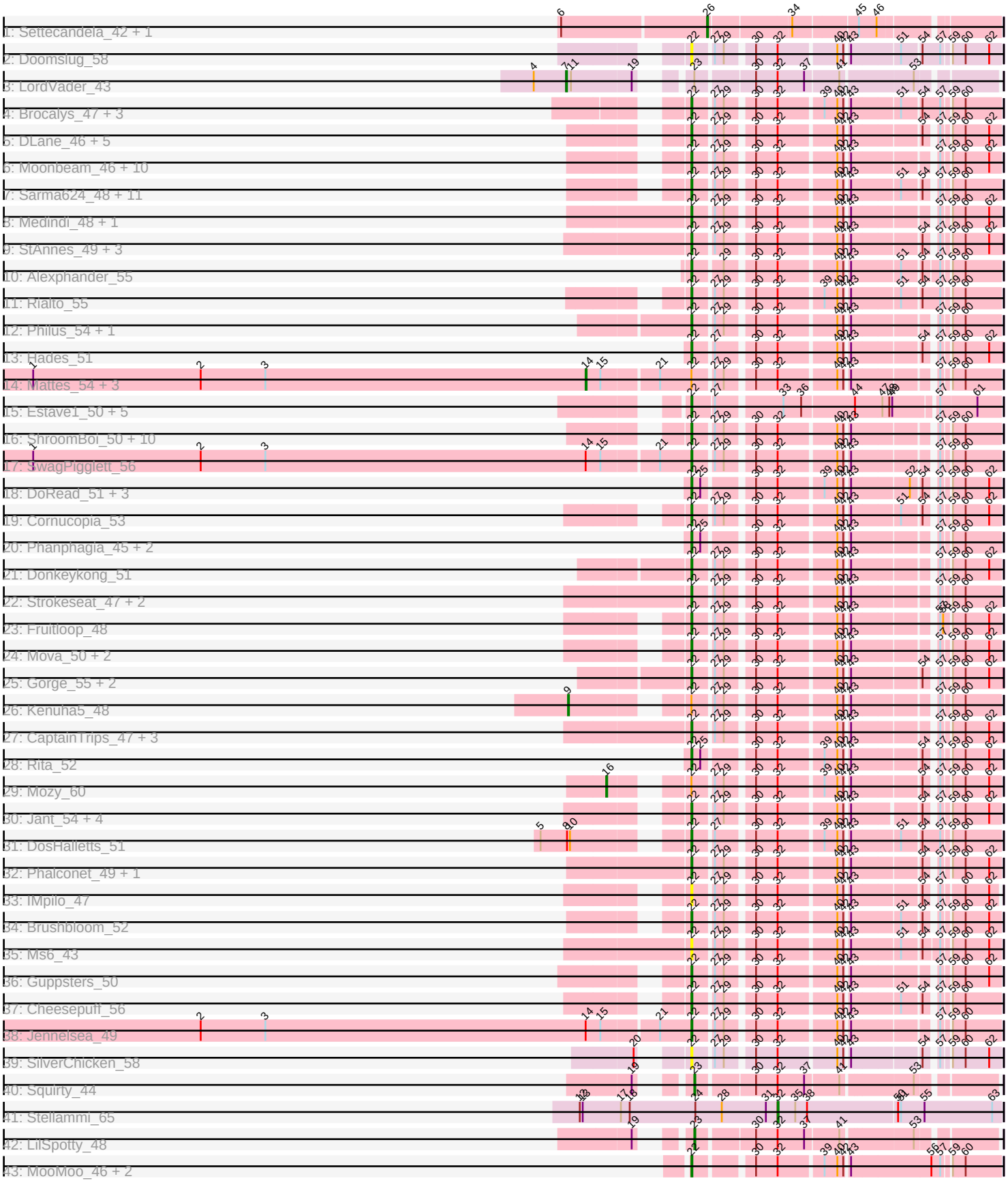
Pham 347412


1: Settecandela_42 + 1
2: Doomslug_58
3: LordVader_43
4: Brocalys_47 + 3
5: DLane_46 + 5
6: Moonbeam_46 + 10
7: Sarma624_48 + 11
8: Medindi_48 + 1
9: StAnnes_49 + 3
10: Alexphander_55
11: Rialto_55
12: Philus_54 + 1
13: Hades_51
14: Mattes_54 + 3
15: Estave1_50 + 5
16: ShroomBoi_50 + 10
17: SwagPiggiett_56
18: DoRead_51 + 3
19: Cornucopia_53
20: Phanphagia_45 + 2
21: Donkeykong_51
22: Strokeseat_47 + 2
23: Fruitloop_48
24: Mova_50 + 2
25: Gorge_55 + 2
26: Kenuha5_48
27: CaptainTrips_47 + 3
28: Rita_52
29: Mozy_60
30: Jant_54 + 4
31: DosHalletts_51
32: Phalconet_49 + 1
33: IMpilo_47
34: Brushbloom_52
35: Ms6_43
36: Guppsters_50
37: Cheesepuff_56
38: Jennelsea_49
39: SilverChicken_58
40: Squirty_44
41: Stellammi_65
42: LilSpotty_48
43: MooMoo_46 + 2

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 347412 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347412 has 117 members, 15 are drafts.

Phages represented in each track:
• Track 1 : Settecandela_42, Phrappuccino_42
• Track 2 : Doomslug_58
• Track 3 : LordVader_43
• Track 4 : Brocalys_47, Pippy_50, Clifton_47, LastJedi_46
• Track 5 : DLane_46, Corium_47, Akhila_42, KingJulian_49, MilanaBonita_42, PatoPoderoso_47
• Track 6 : Moonbeam_46, EleanorGeorge_48, Ardmore_41, Mutaforma13_53, Whatsapiecost_49, Filuzino_48, Batiatus_48, Emma_50, Juice456_52, Soul22_54, MilleniumForce_50
• Track 7 : Sarma624_48, Minnie_55, IrishSherpFalk_51, Kingsley_47, Velveteen_45, BigPhil_46, Violac_53, WillSterrel_51, Brookers_47, Cerasum_46, Spartacus_52, Coco12_49
• Track 8 : Medindi_48, Ovechkin_47
• Track 9 : StAnnes_49, XFactor_48, Melissauren88_48, Bobi_52
• Track 10 : Alexphander_55
• Track 11 : Rialto_55
• Track 12 : Philus_54, DRBy19_54
• Track 13 : Hades_51
• Track 14 : Mattes_54, James_54, Zizzle_56, BobaPhett_54
• Track 15 : Estave1_50, Renaud18_55, DeadP_55, Blarby_61, Taj_53, Wee_52
• Track 16 : ShroomBoi_50, Enzomatic_58, Polo2Bam_57, LunaBlu_54, SuperGrey_50, Wachhund_52, NewHope4_53, KristaRAM_49, Galactic_51, SeaLumen_56, Clank_53
• Track 17 : SwagPigglett_56
• Track 18 : DoRead_51, Juniper1_48, SimranZ1_49, Byougenkin_48
• Track 19 : Cornucopia_53
• Track 20 : Phanphagia_45, Shauna1_45, Bipolar_47
• Track 21 : Donkeykong_51
• Track 22 : Strokeseat_47, Mandlovu_47, Hlubikazi_47
• Track 23 : Fruitloop_48
• Track 24 : Mova_50, VRedHorse_50, Okabe_45
• Track 25 : Gorge_55, Saal_53, ByChance_42
• Track 26 : Kenuha5_48
• Track 27 : CaptainTrips_47, Beakin_52, MinionDave_49, Hegedechwinu_50
• Track 28 : Rita_52
• Track 29 : Mozy_60
• Track 30 : Jant_54, Flathead_49, SG4_47, Enby_51, Lorde_51

• Track 31 : DosHalletts_51
• Track 32 : Phalconet_49, PhesterPhotato_52
• Track 33 : IMpilo_47
• Track 34 : Brushbloom_52
• Track 35 : Ms6_43
• Track 36 : Guppsters_50
• Track 37 : Cheesepuff_56
• Track 38 : Jennelsea_49
• Track 39 : SilverChicken_58
• Track 40 : Squirty_44
• Track 41 : Stellammi_65
• Track 42 : LilSpotty_48
• Track 43 : MooMoo_46, TChen_50, LunaStella_48

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

The start number called the most often in the published annotations is 22, it was called in 90 of the 102 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Akhila_42, Alexphander_55, Ardmore_41, Batiatus_48, Beakin_52, BigPhil_46, Bipolar_47, Blarby_61, Bobi_52, Brocalys_47, Brookers_47, Brushbloom_52, ByChance_42, Byougenkin_48, CaptainTrips_47, Cerasum_46, Cheesepuff_56, Clank_53, Clifton_47, Coco12_49, Corium_47, Cornucopia_53, DLane_46, DRBy19_54, DeadP_55, DoRead_51, Donkeykong_51, Doomslug_58, DosHalletts_51, EleanorGeorge_48, Emma_50, Enby_51, Enzomatic_58, Estave1_50, Filuzino_48, Flathead_49, Fruitloop_48, Galactic_51, Gorge_55, Guppsters_50, Hades_51, Hegedechwinu_50, Hlubikazi_47, IMpilo_47, IrishSherpFalk_51, Jant_54, Jennelsea_49, Juice456_52, Juniper1_48, KingJulian_49, Kingsley_47, KristaRAM_49, LastJedi_46, Lorde_51, LunaBlu_54, LunaStella_48, Mandlovu_47, Medindi_48, Melissauren88_48, MilanaBonita_42, MilleniumForce_50, MinionDave_49, Minnie_55, MooMoo_46, Moonbeam_46, Mova_50, Ms6_43, Mutaforma13_53, NewHope4_53, Okabe_45, Ovechkin_47, PatoPoderoso_47, Phalconet_49, Phanphagia_45, PhesterPhotato_52, Philus_54, Pippy_50, Polo2Bam_57, Renaud18_55, Rialto_55, Rita_52, SG4_47, Saal_53, Sarma624_48, SeaLumen_56, Shauna1_45, ShroomBoi_50, SilverChicken_58, SimranZ1_49, Soul22_54, Spartacus_52, StAnnes_49, Strokeseat_47, SuperGrey_50, SwagPigglett_56, TChen_50, Taj_53, VRedHorse_50, Velveteen_45, Violac_53, Wachhund_52, Wee_52, Whatsapiecost_49, WillSterrel_51, XFactor_48,

Genes that have the "Most Annotated" start but do not call it:
• BobaPhett_54, James_54, Kenuha5_48, Mattes_54, Mozy_60, Zizzle_56,

Genes that do not have the "Most Annotated" start:
• LilSpotty_48, LordVader_43, Phrappuccino_42, Settecandela_42, Squirty_44, Stellammi_65,

Summary by start number:

Start 7:

• Found in 1 of 117 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 102
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LordVader_43 (F),

Start 9:
• Found in 1 of 117 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 102
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kenuha5_48 (F1),

Start 14:
• Found in 6 of 117 (5.1%) of genes in pham
• Manual Annotations of this start: 4 of 102
• Called 66.7% of time when present
• Phage (with cluster) where this start called: BobaPhett_54 (F1), James_54 (F1), Mattes_54 (F1), Zizzle_56 (F1),

Start 16:
• Found in 1 of 117 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 102
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mozy_60 (F1),

Start 22:
• Found in 111 of 117 (94.9%) of genes in pham
• Manual Annotations of this start: 90 of 102
• Called 94.6% of time when present
• Phage (with cluster) where this start called: Akhila_42 (F1), Alexphander_55 (F1), Ardmore_41 (F1), Batiatus_48 (F1), Beakin_52 (F1), BigPhil_46 (F1), Bipolar_47 (F1), Blarby_61 (F), Bobi_52 (F1), Brocalys_47 (F1), Brookers_47 (F1), Brushbloom_52 (F1), ByChance_42 (F1), Byougenkin_48 (F1), CaptainTrips_47 (F1), Cerasum_46 (F1), Cheesepuff_56 (F1), Clank_53 (F), Clifton_47 (F1), Coco12_49 (F1), Corium_47 (F1), Cornucopia_53 (F1), DLane_46 (F1), DRBy19_54 (F1), DeadP_55 (F1), DoRead_51 (F1), Donkeykong_51 (F1), Doomslug_58 (F), DosHalletts_51 (F1), EleanorGeorge_48 (F1), Emma_50 (F1), Enby_51 (F1), Enzomatic_58 (F1), Estave1_50 (F1), Filuzino_48 (F1), Flathead_49 (F1), Fruitloop_48 (F1), Galactic_51 (F1), Gorge_55 (F1), Guppsters_50 (F1), Hades_51 (F1), Hegedechwinu_50 (F1), Hlubikazi_47 (F1), IMpilo_47 (F1), IrishSherpFalk_51 (F1), Jant_54 (F1), Jennelsea_49 (F1), Juice456_52 (F1), Juniper1_48 (F1), KingJulian_49 (F1), Kingsley_47 (F1), KristaRAM_49 (F1), LastJedi_46 (F1), Lorde_51 (F1), LunaBlu_54 (F1), LunaStella_48 (F4), Mandlovu_47 (F1), Medindi_48 (F1), Melissauren88_48 (F1), MilanaBonita_42 (F1), MilleniumForce_50 (F1), MinionDave_49 (F1), Minnie_55 (F1), MooMoo_46 (singleton), Moonbeam_46 (F1), Mova_50 (F1), Ms6_43 (F1), Mutaforma13_53 (F1), NewHope4_53 (F1), Okabe_45 (F8), Ovechkin_47 (F1), PatoPoderoso_47 (F1), Phalconet_49 (F1), Phanphagia_45 (F1), PhesterPhotato_52 (F1), Philus_54 (F1), Pippy_50 (F1), Polo2Bam_57 (F1), Renaud18_55 (F4), Rialto_55 (F1), Rita_52 (F1), SG4_47 (F1), Saal_53 (F1), Sarma624_48 (F1), SeaLumen_56 (F1), Shauna1_45 (F1), ShroomBoi_50 (F1), SilverChicken_58 (F2), SimranZ1_49 (F1), Soul22_54 (F2), Spartacus_52 (F1), StAnnes_49 (F1), Strokeseat_47 (F1), SuperGrey_50 (F1), SwagPigglett_56 (F1), TChen_50 (F4), Taj_53 (F1), VRedHorse_50 (F1), Velveteen_45 (F1), Violac_53 (F1), Wachhund_52 (F1), Wee_52 (F1), Whatsapiecost_49 (F1), WillSterrel_51 (F1),

XFactor_48 (F1),

Start 23:
• Found in 3 of 117 (2.6%) of genes in pham
• Manual Annotations of this start: 2 of 102
• Called 66.7% of time when present
• Phage (with cluster) where this start called: LilSpotty_48 (singleton), Squirty_44 (F3),

Start 26:
• Found in 2 of 117 (1.7%) of genes in pham
• Manual Annotations of this start: 2 of 102
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phrappuccino_42 (AA), Settecandela_42 (AA),

Start 32:
• Found in 109 of 117 (93.2%) of genes in pham
• Manual Annotations of this start: 1 of 102
• Called 0.9% of time when present
• Phage (with cluster) where this start called: Stellammi_65 (UNK),

Summary by clusters:

There are 9 clusters represented in this pham: AA, F1, singleton, F3, F4, F, F8, F2, UNK,

Info for manual annotations of cluster AA:
•Start number 26 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster F:
•Start number 7 was manually annotated 1 time for cluster F.

Info for manual annotations of cluster F1:
•Start number 9 was manually annotated 1 time for cluster F1.
•Start number 14 was manually annotated 4 times for cluster F1.
•Start number 16 was manually annotated 1 time for cluster F1.
•Start number 22 was manually annotated 85 times for cluster F1.

Info for manual annotations of cluster F2:
•Start number 22 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F3:
•Start number 23 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster F4:
•Start number 22 was manually annotated 3 times for cluster F4.

Info for manual annotations of cluster UNK:
•Start number 32 was manually annotated 1 time for cluster UNK.

Gene Information:

Gene: Akhila_42 Start: 32431, Stop: 32691, Start Num: 22
Candidate Starts for Akhila_42:
(Start: 22 @32431 has 90 MA's), (27, 32449), (29, 32458), (30, 32482), (Start: 32 @32503 has 1 MA's), (40, 32557), (42, 32563), (43, 32566), (54, 32629), (57, 32638), (59, 32644), (60, 32656), (62, 32680),

Gene: Alexphander_55 Start: 37472, Stop: 37738, Start Num: 22
Candidate Starts for Alexphander_55:
(Start: 22 @37472 has 90 MA's), (29, 37499), (30, 37523), (Start: 32 @37544 has 1 MA's), (40, 37598), (42, 37604), (43, 37607), (51, 37652), (54, 37670), (57, 37685), (59, 37691), (60, 37703),

Gene: Ardmore_41 Start: 34224, Stop: 34484, Start Num: 22
Candidate Starts for Ardmore_41:
(Start: 22 @34224 has 90 MA's), (27, 34242), (29, 34251), (30, 34275), (Start: 32 @34296 has 1 MA's), (40, 34350), (42, 34356), (43, 34359), (57, 34431), (59, 34437), (60, 34449), (62, 34473),

Gene: Batiatus_48 Start: 36640, Stop: 36903, Start Num: 22
Candidate Starts for Batiatus_48:
(Start: 22 @36640 has 90 MA's), (27, 36658), (29, 36667), (30, 36691), (Start: 32 @36712 has 1 MA's), (40, 36766), (42, 36772), (43, 36775), (57, 36847), (59, 36853), (60, 36865), (62, 36889),

Gene: Beakin_52 Start: 36460, Stop: 36720, Start Num: 22
Candidate Starts for Beakin_52:
(Start: 22 @36460 has 90 MA's), (27, 36478), (29, 36487), (30, 36511), (Start: 32 @36532 has 1 MA's), (40, 36586), (42, 36592), (43, 36595), (57, 36667), (59, 36673), (60, 36685), (62, 36709),

Gene: BigPhil_46 Start: 32920, Stop: 33180, Start Num: 22
Candidate Starts for BigPhil_46:
(Start: 22 @32920 has 90 MA's), (27, 32938), (29, 32947), (30, 32971), (Start: 32 @32992 has 1 MA's), (40, 33046), (42, 33052), (43, 33055), (51, 33100), (54, 33118), (57, 33127), (59, 33133), (60, 33145),

Gene: Bipolar_47 Start: 36374, Stop: 36634, Start Num: 22
Candidate Starts for Bipolar_47:
(Start: 22 @36374 has 90 MA's), (25, 36383), (30, 36425), (Start: 32 @36446 has 1 MA's), (40, 36500), (42, 36506), (43, 36509), (57, 36581), (59, 36587), (60, 36599),

Gene: Blarby_61 Start: 37278, Stop: 37565, Start Num: 22
Candidate Starts for Blarby_61:
(Start: 22 @37278 has 90 MA's), (27, 37299), (33, 37359), (36, 37377), (44, 37428), (47, 37455), (48, 37461), (49, 37464), (57, 37506), (61, 37542),

Gene: BobaPhett_54 Start: 39312, Stop: 39671, Start Num: 14
Candidate Starts for BobaPhett_54:
(1, 38748), (2, 38919), (3, 38985), (Start: 14 @39312 has 4 MA's), (15, 39327), (21, 39381), (Start: 22 @39411 has 90 MA's), (27, 39429), (29, 39438), (30, 39462), (Start: 32 @39483 has 1 MA's), (40, 39537), (42, 39543), (43, 39546), (57, 39618), (59, 39624), (60, 39636),

Gene: Bobi_52 Start: 37227, Stop: 37487, Start Num: 22
Candidate Starts for Bobi_52:
(Start: 22 @37227 has 90 MA's), (27, 37245), (29, 37254), (30, 37278), (Start: 32 @37299 has 1 MA's), (40, 37353), (42, 37359), (43, 37362), (54, 37425), (57, 37434), (59, 37440), (60, 37452), (62, 37476),

Gene: Brocalys_47 Start: 34063, Stop: 34332, Start Num: 22
Candidate Starts for Brocalys_47:
(Start: 22 @34063 has 90 MA's), (27, 34081), (29, 34090), (30, 34114), (Start: 32 @34135 has 1 MA's), (39, 34177), (40, 34189), (42, 34195), (43, 34198), (51, 34243), (54, 34261), (57, 34279), (59, 34285), (60, 34297),

Gene: Brookers_47 Start: 35871, Stop: 36131, Start Num: 22
Candidate Starts for Brookers_47:
(Start: 22 @35871 has 90 MA's), (27, 35889), (29, 35898), (30, 35922), (Start: 32 @35943 has 1 MA's), (40, 35997), (42, 36003), (43, 36006), (51, 36051), (54, 36069), (57, 36078), (59, 36084), (60, 36096),

Gene: Brushbloom_52 Start: 37079, Stop: 37339, Start Num: 22
Candidate Starts for Brushbloom_52:
(Start: 22 @37079 has 90 MA's), (27, 37097), (29, 37106), (30, 37130), (Start: 32 @37151 has 1 MA's), (40, 37205), (42, 37211), (43, 37214), (51, 37259), (54, 37277), (57, 37286), (59, 37292), (60, 37304), (62, 37328),

Gene: ByChance_42 Start: 32434, Stop: 32697, Start Num: 22
Candidate Starts for ByChance_42:
(Start: 22 @32434 has 90 MA's), (27, 32452), (29, 32461), (30, 32485), (Start: 32 @32506 has 1 MA's), (40, 32560), (42, 32566), (43, 32569), (54, 32632), (57, 32641), (59, 32647), (60, 32659), (62, 32683),

Gene: Byougenkin_48 Start: 36458, Stop: 36718, Start Num: 22
Candidate Starts for Byougenkin_48:
(Start: 22 @36458 has 90 MA's), (25, 36467), (30, 36509), (Start: 32 @36530 has 1 MA's), (39, 36572), (40, 36584), (42, 36590), (43, 36593), (52, 36647), (54, 36656), (57, 36665), (59, 36671), (60, 36683), (62, 36707),

Gene: CaptainTrips_47 Start: 35660, Stop: 35923, Start Num: 22
Candidate Starts for CaptainTrips_47:
(Start: 22 @35660 has 90 MA's), (27, 35678), (29, 35687), (30, 35711), (Start: 32 @35732 has 1 MA's), (40, 35786), (42, 35792), (43, 35795), (57, 35867), (59, 35873), (60, 35885), (62, 35909),

Gene: Cerasum_46 Start: 32938, Stop: 33198, Start Num: 22
Candidate Starts for Cerasum_46:
(Start: 22 @32938 has 90 MA's), (27, 32956), (29, 32965), (30, 32989), (Start: 32 @33010 has 1 MA's), (40, 33064), (42, 33070), (43, 33073), (51, 33118), (54, 33136), (57, 33145), (59, 33151), (60, 33163),

Gene: Cheesepuff_56 Start: 38596, Stop: 38856, Start Num: 22
Candidate Starts for Cheesepuff_56:
(Start: 22 @38596 has 90 MA's), (27, 38614), (29, 38623), (30, 38647), (Start: 32 @38668 has 1 MA's), (40, 38722), (42, 38728), (43, 38731), (51, 38776), (54, 38794), (57, 38803), (59, 38809), (60, 38821),

Gene: Clank_53 Start: 37190, Stop: 37450, Start Num: 22
Candidate Starts for Clank_53:
(Start: 22 @37190 has 90 MA's), (27, 37208), (29, 37217), (30, 37241), (Start: 32 @37262 has 1 MA's), (40, 37316), (42, 37322), (43, 37325), (57, 37397), (59, 37403), (60, 37415),

Gene: Clifton_47 Start: 34414, Stop: 34683, Start Num: 22
Candidate Starts for Clifton_47:
(Start: 22 @34414 has 90 MA's), (27, 34432), (29, 34441), (30, 34465), (Start: 32 @34486 has 1 MA's), (39, 34528), (40, 34540), (42, 34546), (43, 34549), (51, 34594), (54, 34612), (57, 34630), (59, 34636), (60, 34648),

Gene: Coco12_49 Start: 36995, Stop: 37255, Start Num: 22
Candidate Starts for Coco12_49:
(Start: 22 @36995 has 90 MA's), (27, 37013), (29, 37022), (30, 37046), (Start: 32 @37067 has 1 MA's), (40, 37121), (42, 37127), (43, 37130), (51, 37175), (54, 37193), (57, 37202), (59, 37208), (60, 37220),

Gene: Corium_47 Start: 35745, Stop: 36005, Start Num: 22
Candidate Starts for Corium_47:
(Start: 22 @35745 has 90 MA's), (27, 35763), (29, 35772), (30, 35796), (Start: 32 @35817 has 1 MA's), (40, 35871), (42, 35877), (43, 35880), (54, 35943), (57, 35952), (59, 35958), (60, 35970), (62, 35994),

Gene: Cornucopia_53 Start: 37702, Stop: 37962, Start Num: 22
Candidate Starts for Cornucopia_53:
(Start: 22 @37702 has 90 MA's), (27, 37720), (29, 37729), (30, 37753), (Start: 32 @37774 has 1 MA's), (40, 37828), (42, 37834), (43, 37837), (51, 37882), (54, 37900), (57, 37909), (59, 37915), (60, 37927), (62, 37951),

Gene: DLane_46 Start: 35745, Stop: 36005, Start Num: 22
Candidate Starts for DLane_46:
(Start: 22 @35745 has 90 MA's), (27, 35763), (29, 35772), (30, 35796), (Start: 32 @35817 has 1 MA's), (40, 35871), (42, 35877), (43, 35880), (54, 35943), (57, 35952), (59, 35958), (60, 35970), (62, 35994),

Gene: DRBy19_54 Start: 38199, Stop: 38459, Start Num: 22
Candidate Starts for DRBy19_54:
(Start: 22 @38199 has 90 MA's), (27, 38217), (29, 38226), (30, 38250), (Start: 32 @38271 has 1 MA's), (40, 38325), (42, 38331), (43, 38334), (57, 38406), (59, 38412), (60, 38424),

Gene: DeadP_55 Start: 37934, Stop: 38218, Start Num: 22
Candidate Starts for DeadP_55:
(Start: 22 @37934 has 90 MA's), (27, 37955), (33, 38015), (36, 38033), (44, 38084), (47, 38111), (48, 38117), (49, 38120), (57, 38159), (61, 38195),

Gene: DoRead_51 Start: 35474, Stop: 35734, Start Num: 22
Candidate Starts for DoRead_51:
(Start: 22 @35474 has 90 MA's), (25, 35483), (30, 35525), (Start: 32 @35546 has 1 MA's), (39, 35588), (40, 35600), (42, 35606), (43, 35609), (52, 35663), (54, 35672), (57, 35681), (59, 35687), (60, 35699), (62, 35723),

Gene: Donkeykong_51 Start: 38545, Stop: 38805, Start Num: 22
Candidate Starts for Donkeykong_51:
(Start: 22 @38545 has 90 MA's), (27, 38563), (29, 38572), (30, 38596), (Start: 32 @38617 has 1 MA's), (40, 38671), (42, 38677), (43, 38680), (57, 38752), (59, 38758), (60, 38770), (62, 38794),

Gene: Doomslug_58 Start: 36353, Stop: 36622, Start Num: 22
Candidate Starts for Doomslug_58:
(Start: 22 @36353 has 90 MA's), (27, 36371), (29, 36380), (30, 36404), (Start: 32 @36425 has 1 MA's), (40, 36479), (42, 36485), (43, 36488), (51, 36533), (54, 36551), (57, 36569), (59, 36575), (60, 36587), (62, 36611),

Gene: DosHalletts_51 Start: 37887, Stop: 38156, Start Num: 22
Candidate Starts for DosHalletts_51:
(5, 37767), (8, 37794), (10, 37797), (Start: 22 @37887 has 90 MA's), (27, 37905), (30, 37938), (Start: 32 @37959 has 1 MA's), (39, 38001), (40, 38013), (42, 38019), (43, 38022), (51, 38067), (54, 38085),

(57, 38103), (59, 38109), (60, 38121),

Gene: EleanorGeorge_48 Start: 36028, Stop: 36288, Start Num: 22
Candidate Starts for EleanorGeorge_48:
(Start: 22 @36028 has 90 MA's), (27, 36046), (29, 36055), (30, 36079), (Start: 32 @36100 has 1 MA's), (40, 36154), (42, 36160), (43, 36163), (57, 36235), (59, 36241), (60, 36253), (62, 36277),

Gene: Emma_50 Start: 35972, Stop: 36232, Start Num: 22
Candidate Starts for Emma_50:
(Start: 22 @35972 has 90 MA's), (27, 35990), (29, 35999), (30, 36023), (Start: 32 @36044 has 1 MA's), (40, 36098), (42, 36104), (43, 36107), (57, 36179), (59, 36185), (60, 36197), (62, 36221),

Gene: Enby_51 Start: 35146, Stop: 35409, Start Num: 22
Candidate Starts for Enby_51:
(Start: 22 @35146 has 90 MA's), (27, 35164), (29, 35173), (30, 35197), (Start: 32 @35218 has 1 MA's), (40, 35272), (42, 35278), (43, 35281), (54, 35344), (57, 35353), (59, 35359), (60, 35371), (62, 35395),

Gene: Enzomatic_58 Start: 37055, Stop: 37315, Start Num: 22
Candidate Starts for Enzomatic_58:
(Start: 22 @37055 has 90 MA's), (27, 37073), (29, 37082), (30, 37106), (Start: 32 @37127 has 1 MA's), (40, 37181), (42, 37187), (43, 37190), (57, 37262), (59, 37268), (60, 37280),

Gene: Estave1_50 Start: 36122, Stop: 36406, Start Num: 22
Candidate Starts for Estave1_50:
(Start: 22 @36122 has 90 MA's), (27, 36143), (33, 36203), (36, 36221), (44, 36272), (47, 36299), (48, 36305), (49, 36308), (57, 36347), (61, 36383),

Gene: Filuzino_48 Start: 35552, Stop: 35812, Start Num: 22
Candidate Starts for Filuzino_48:
(Start: 22 @35552 has 90 MA's), (27, 35570), (29, 35579), (30, 35603), (Start: 32 @35624 has 1 MA's), (40, 35678), (42, 35684), (43, 35687), (57, 35759), (59, 35765), (60, 35777), (62, 35801),

Gene: Flathead_49 Start: 36925, Stop: 37185, Start Num: 22
Candidate Starts for Flathead_49:
(Start: 22 @36925 has 90 MA's), (27, 36943), (29, 36952), (30, 36976), (Start: 32 @36997 has 1 MA's), (40, 37051), (42, 37057), (43, 37060), (54, 37123), (57, 37132), (59, 37138), (60, 37150), (62, 37174),

Gene: Fruitloop_48 Start: 37415, Stop: 37678, Start Num: 22
Candidate Starts for Fruitloop_48:
(Start: 22 @37415 has 90 MA's), (27, 37433), (29, 37442), (30, 37466), (Start: 32 @37487 has 1 MA's), (40, 37541), (42, 37547), (43, 37550), (57, 37622), (58, 37625), (59, 37631), (60, 37643), (62, 37667),

Gene: Galactic_51 Start: 37171, Stop: 37431, Start Num: 22
Candidate Starts for Galactic_51:
(Start: 22 @37171 has 90 MA's), (27, 37189), (29, 37198), (30, 37222), (Start: 32 @37243 has 1 MA's), (40, 37297), (42, 37303), (43, 37306), (57, 37378), (59, 37384), (60, 37396),

Gene: Gorge_55 Start: 38326, Stop: 38589, Start Num: 22
Candidate Starts for Gorge_55:
(Start: 22 @38326 has 90 MA's), (27, 38344), (29, 38353), (30, 38377), (Start: 32 @38398 has 1 MA's), (40, 38452), (42, 38458), (43, 38461), (54, 38524), (57, 38533), (59, 38539), (60, 38551), (62, 38575),

Gene: Guppsters_50 Start: 36031, Stop: 36291, Start Num: 22

Candidate Starts for Guppsters_50:
(Start: 22 @36031 has 90 MA's), (27, 36049), (29, 36058), (30, 36082), (Start: 32 @36103 has 1 MA's), (40, 36157), (42, 36163), (43, 36166), (57, 36238), (59, 36244), (60, 36256), (62, 36280),

Gene: Hades_51 Start: 36925, Stop: 37188, Start Num: 22
Candidate Starts for Hades_51:
(Start: 22 @36925 has 90 MA's), (27, 36943), (30, 36976), (Start: 32 @36997 has 1 MA's), (40, 37051), (42, 37057), (43, 37060), (54, 37123), (57, 37132), (59, 37138), (60, 37150), (62, 37174),

Gene: Hegedechwinu_50 Start: 35352, Stop: 35612, Start Num: 22
Candidate Starts for Hegedechwinu_50:
(Start: 22 @35352 has 90 MA's), (27, 35370), (29, 35379), (30, 35403), (Start: 32 @35424 has 1 MA's), (40, 35478), (42, 35484), (43, 35487), (57, 35559), (59, 35565), (60, 35577), (62, 35601),

Gene: Hlubikazi_47 Start: 35112, Stop: 35372, Start Num: 22
Candidate Starts for Hlubikazi_47:
(Start: 22 @35112 has 90 MA's), (27, 35130), (29, 35139), (30, 35163), (Start: 32 @35184 has 1 MA's), (40, 35238), (42, 35244), (43, 35247), (57, 35319), (59, 35325), (60, 35337),

Gene: IMpilo_47 Start: 35025, Stop: 35282, Start Num: 22
Candidate Starts for IMpilo_47:
(Start: 22 @35025 has 90 MA's), (27, 35043), (29, 35052), (30, 35076), (Start: 32 @35097 has 1 MA's), (40, 35151), (42, 35157), (43, 35160), (54, 35223), (57, 35232), (60, 35250), (62, 35274),

Gene: IrishSherpFalk_51 Start: 38088, Stop: 38348, Start Num: 22
Candidate Starts for IrishSherpFalk_51:
(Start: 22 @38088 has 90 MA's), (27, 38106), (29, 38115), (30, 38139), (Start: 32 @38160 has 1 MA's), (40, 38214), (42, 38220), (43, 38223), (51, 38268), (54, 38286), (57, 38295), (59, 38301), (60, 38313),

Gene: James_54 Start: 38190, Stop: 38549, Start Num: 14
Candidate Starts for James_54:
(1, 37626), (2, 37797), (3, 37863), (Start: 14 @38190 has 4 MA's), (15, 38205), (21, 38259), (Start: 22 @38289 has 90 MA's), (27, 38307), (29, 38316), (30, 38340), (Start: 32 @38361 has 1 MA's), (40, 38415), (42, 38421), (43, 38424), (57, 38496), (59, 38502), (60, 38514),

Gene: Jant_54 Start: 38426, Stop: 38683, Start Num: 22
Candidate Starts for Jant_54:
(Start: 22 @38426 has 90 MA's), (27, 38444), (29, 38453), (30, 38477), (Start: 32 @38498 has 1 MA's), (40, 38552), (42, 38558), (43, 38561), (54, 38621), (57, 38630), (59, 38636), (60, 38648), (62, 38672),

Gene: Jennelsea_49 Start: 35719, Stop: 35979, Start Num: 22
Candidate Starts for Jennelsea_49:
(2, 35227), (3, 35293), (Start: 14 @35620 has 4 MA's), (15, 35635), (21, 35689), (Start: 22 @35719 has 90 MA's), (27, 35737), (29, 35746), (30, 35770), (Start: 32 @35791 has 1 MA's), (40, 35845), (42, 35851), (43, 35854), (57, 35926), (59, 35932), (60, 35944),

Gene: Juice456_52 Start: 37930, Stop: 38190, Start Num: 22
Candidate Starts for Juice456_52:
(Start: 22 @37930 has 90 MA's), (27, 37948), (29, 37957), (30, 37981), (Start: 32 @38002 has 1 MA's), (40, 38056), (42, 38062), (43, 38065), (57, 38137), (59, 38143), (60, 38155), (62, 38179),

Gene: Juniper1_48 Start: 36146, Stop: 36406, Start Num: 22
Candidate Starts for Juniper1_48:

(Start: 22 @36146 has 90 MA's), (25, 36155), (30, 36197), (Start: 32 @36218 has 1 MA's), (39, 36260), (40, 36272), (42, 36278), (43, 36281), (52, 36335), (54, 36344), (57, 36353), (59, 36359), (60, 36371), (62, 36395),

Gene: Kenuha5_48 Start: 35550, Stop: 35903, Start Num: 9
Candidate Starts for Kenuha5_48:
(Start: 9 @35550 has 1 MA's), (Start: 22 @35643 has 90 MA's), (27, 35661), (29, 35670), (30, 35694), (Start: 32 @35715 has 1 MA's), (40, 35769), (42, 35775), (43, 35778), (57, 35850), (59, 35856), (60, 35868),

Gene: KingJulian_49 Start: 35745, Stop: 36005, Start Num: 22
Candidate Starts for KingJulian_49:
(Start: 22 @35745 has 90 MA's), (27, 35763), (29, 35772), (30, 35796), (Start: 32 @35817 has 1 MA's), (40, 35871), (42, 35877), (43, 35880), (54, 35943), (57, 35952), (59, 35958), (60, 35970), (62, 35994),

Gene: Kingsley_47 Start: 35728, Stop: 35988, Start Num: 22
Candidate Starts for Kingsley_47:
(Start: 22 @35728 has 90 MA's), (27, 35746), (29, 35755), (30, 35779), (Start: 32 @35800 has 1 MA's), (40, 35854), (42, 35860), (43, 35863), (51, 35908), (54, 35926), (57, 35935), (59, 35941), (60, 35953),

Gene: KristaRAM_49 Start: 37743, Stop: 38003, Start Num: 22
Candidate Starts for KristaRAM_49:
(Start: 22 @37743 has 90 MA's), (27, 37761), (29, 37770), (30, 37794), (Start: 32 @37815 has 1 MA's), (40, 37869), (42, 37875), (43, 37878), (57, 37950), (59, 37956), (60, 37968),

Gene: LastJedi_46 Start: 34457, Stop: 34726, Start Num: 22
Candidate Starts for LastJedi_46:
(Start: 22 @34457 has 90 MA's), (27, 34475), (29, 34484), (30, 34508), (Start: 32 @34529 has 1 MA's), (39, 34571), (40, 34583), (42, 34589), (43, 34592), (51, 34637), (54, 34655), (57, 34673), (59, 34679), (60, 34691),

Gene: LilSpotty_48 Start: 34139, Stop: 34411, Start Num: 23
Candidate Starts for LilSpotty_48:
(19, 34112), (Start: 23 @34139 has 2 MA's), (30, 34193), (Start: 32 @34214 has 1 MA's), (37, 34241), (41, 34274), (53, 34340),

Gene: LordVader_43 Start: 31308, Stop: 31670, Start Num: 7
Candidate Starts for LordVader_43:
(4, 31275), (Start: 7 @31308 has 1 MA's), (11, 31311), (19, 31371), (Start: 23 @31398 has 2 MA's), (30, 31452), (Start: 32 @31473 has 1 MA's), (37, 31500), (41, 31533), (53, 31599),

Gene: Lorde_51 Start: 35121, Stop: 35384, Start Num: 22
Candidate Starts for Lorde_51:
(Start: 22 @35121 has 90 MA's), (27, 35139), (29, 35148), (30, 35172), (Start: 32 @35193 has 1 MA's), (40, 35247), (42, 35253), (43, 35256), (54, 35319), (57, 35328), (59, 35334), (60, 35346), (62, 35370),

Gene: LunaBlu_54 Start: 37830, Stop: 38090, Start Num: 22
Candidate Starts for LunaBlu_54:
(Start: 22 @37830 has 90 MA's), (27, 37848), (29, 37857), (30, 37881), (Start: 32 @37902 has 1 MA's), (40, 37956), (42, 37962), (43, 37965), (57, 38037), (59, 38043), (60, 38055),

Gene: LunaStella_48 Start: 35282, Stop: 35557, Start Num: 22
Candidate Starts for LunaStella_48:

(Start: 22 @35282 has 90 MA's), (30, 35333), (Start: 32 @35354 has 1 MA's), (39, 35396), (40, 35408), (42, 35414), (43, 35417), (56, 35495), (57, 35504), (59, 35510), (60, 35522),

Gene: Mandlovu_47 Start: 35054, Stop: 35314, Start Num: 22
Candidate Starts for Mandlovu_47:
(Start: 22 @35054 has 90 MA's), (27, 35072), (29, 35081), (30, 35105), (Start: 32 @35126 has 1 MA's), (40, 35180), (42, 35186), (43, 35189), (57, 35261), (59, 35267), (60, 35279),

Gene: Mattes_54 Start: 38190, Stop: 38549, Start Num: 14
Candidate Starts for Mattes_54:
(1, 37626), (2, 37797), (3, 37863), (Start: 14 @38190 has 4 MA's), (15, 38205), (21, 38259), (Start: 22 @38289 has 90 MA's), (27, 38307), (29, 38316), (30, 38340), (Start: 32 @38361 has 1 MA's), (40, 38415), (42, 38421), (43, 38424), (57, 38496), (59, 38502), (60, 38514),

Gene: Medindi_48 Start: 34833, Stop: 35093, Start Num: 22
Candidate Starts for Medindi_48:
(Start: 22 @34833 has 90 MA's), (27, 34851), (29, 34860), (30, 34884), (Start: 32 @34905 has 1 MA's), (40, 34959), (42, 34965), (43, 34968), (57, 35040), (59, 35046), (60, 35058), (62, 35082),

Gene: Melissauren88_48 Start: 35898, Stop: 36161, Start Num: 22
Candidate Starts for Melissauren88_48:
(Start: 22 @35898 has 90 MA's), (27, 35916), (29, 35925), (30, 35949), (Start: 32 @35970 has 1 MA's), (40, 36024), (42, 36030), (43, 36033), (54, 36096), (57, 36105), (59, 36111), (60, 36123), (62, 36147),

Gene: MilanaBonita_42 Start: 32431, Stop: 32691, Start Num: 22
Candidate Starts for MilanaBonita_42:
(Start: 22 @32431 has 90 MA's), (27, 32449), (29, 32458), (30, 32482), (Start: 32 @32503 has 1 MA's), (40, 32557), (42, 32563), (43, 32566), (54, 32629), (57, 32638), (59, 32644), (60, 32656), (62, 32680),

Gene: MilleniumForce_50 Start: 37892, Stop: 38152, Start Num: 22
Candidate Starts for MilleniumForce_50:
(Start: 22 @37892 has 90 MA's), (27, 37910), (29, 37919), (30, 37943), (Start: 32 @37964 has 1 MA's), (40, 38018), (42, 38024), (43, 38027), (57, 38099), (59, 38105), (60, 38117), (62, 38141),

Gene: MinionDave_49 Start: 36435, Stop: 36698, Start Num: 22
Candidate Starts for MinionDave_49:
(Start: 22 @36435 has 90 MA's), (27, 36453), (29, 36462), (30, 36486), (Start: 32 @36507 has 1 MA's), (40, 36561), (42, 36567), (43, 36570), (57, 36642), (59, 36648), (60, 36660), (62, 36684),

Gene: Minnie_55 Start: 38774, Stop: 39034, Start Num: 22
Candidate Starts for Minnie_55:
(Start: 22 @38774 has 90 MA's), (27, 38792), (29, 38801), (30, 38825), (Start: 32 @38846 has 1 MA's), (40, 38900), (42, 38906), (43, 38909), (51, 38954), (54, 38972), (57, 38981), (59, 38987), (60, 38999),

Gene: MooMoo_46 Start: 35558, Stop: 35833, Start Num: 22
Candidate Starts for MooMoo_46:
(Start: 22 @35558 has 90 MA's), (30, 35609), (Start: 32 @35630 has 1 MA's), (39, 35672), (40, 35684), (42, 35690), (43, 35693), (56, 35771), (57, 35780), (59, 35786), (60, 35798),

Gene: Moonbeam_46 Start: 35928, Stop: 36188, Start Num: 22
Candidate Starts for Moonbeam_46:
(Start: 22 @35928 has 90 MA's), (27, 35946), (29, 35955), (30, 35979), (Start: 32 @36000 has 1 MA's), (40, 36054), (42, 36060), (43, 36063), (57, 36135), (59, 36141), (60, 36153), (62, 36177),

Gene: Mova_50 Start: 35691, Stop: 35951, Start Num: 22
Candidate Starts for Mova_50:
(Start: 22 @35691 has 90 MA's), (27, 35709), (29, 35718), (30, 35742), (Start: 32 @35763 has 1 MA's), (40, 35817), (42, 35823), (43, 35826), (57, 35898), (59, 35904), (60, 35916), (62, 35940),

Gene: Mozy_60 Start: 39450, Stop: 39764, Start Num: 16
Candidate Starts for Mozy_60:
(Start: 16 @39450 has 1 MA's), (Start: 22 @39504 has 90 MA's), (27, 39522), (29, 39531), (30, 39555), (Start: 32 @39576 has 1 MA's), (39, 39618), (40, 39630), (42, 39636), (43, 39639), (54, 39702), (57, 39711), (59, 39717), (60, 39729), (62, 39753),

Gene: Ms6_43 Start: 30964, Stop: 31230, Start Num: 22
Candidate Starts for Ms6_43:
(Start: 22 @30964 has 90 MA's), (27, 30982), (29, 30991), (30, 31015), (Start: 32 @31036 has 1 MA's), (40, 31090), (42, 31096), (43, 31099), (51, 31144), (54, 31162), (57, 31177), (59, 31183), (60, 31195), (62, 31219),

Gene: Mutaforma13_53 Start: 38482, Stop: 38742, Start Num: 22
Candidate Starts for Mutaforma13_53:
(Start: 22 @38482 has 90 MA's), (27, 38500), (29, 38509), (30, 38533), (Start: 32 @38554 has 1 MA's), (40, 38608), (42, 38614), (43, 38617), (57, 38689), (59, 38695), (60, 38707), (62, 38731),

Gene: NewHope4_53 Start: 37201, Stop: 37461, Start Num: 22
Candidate Starts for NewHope4_53:
(Start: 22 @37201 has 90 MA's), (27, 37219), (29, 37228), (30, 37252), (Start: 32 @37273 has 1 MA's), (40, 37327), (42, 37333), (43, 37336), (57, 37408), (59, 37414), (60, 37426),

Gene: Okabe_45 Start: 32290, Stop: 32547, Start Num: 22
Candidate Starts for Okabe_45:
(Start: 22 @32290 has 90 MA's), (27, 32308), (29, 32317), (30, 32341), (Start: 32 @32362 has 1 MA's), (40, 32416), (42, 32422), (43, 32425), (57, 32494), (59, 32500), (60, 32512), (62, 32536),

Gene: Ovechkin_47 Start: 36285, Stop: 36545, Start Num: 22
Candidate Starts for Ovechkin_47:
(Start: 22 @36285 has 90 MA's), (27, 36303), (29, 36312), (30, 36336), (Start: 32 @36357 has 1 MA's), (40, 36411), (42, 36417), (43, 36420), (57, 36492), (59, 36498), (60, 36510), (62, 36534),

Gene: PatoPoderoso_47 Start: 35745, Stop: 36005, Start Num: 22
Candidate Starts for PatoPoderoso_47:
(Start: 22 @35745 has 90 MA's), (27, 35763), (29, 35772), (30, 35796), (Start: 32 @35817 has 1 MA's), (40, 35871), (42, 35877), (43, 35880), (54, 35943), (57, 35952), (59, 35958), (60, 35970), (62, 35994),

Gene: Phalconet_49 Start: 36205, Stop: 36465, Start Num: 22
Candidate Starts for Phalconet_49:
(Start: 22 @36205 has 90 MA's), (27, 36223), (29, 36232), (30, 36256), (Start: 32 @36277 has 1 MA's), (40, 36331), (42, 36337), (43, 36340), (54, 36403), (57, 36412), (59, 36418), (60, 36430), (62, 36454),

Gene: Phanphagia_45 Start: 36033, Stop: 36293, Start Num: 22
Candidate Starts for Phanphagia_45:
(Start: 22 @36033 has 90 MA's), (25, 36042), (30, 36084), (Start: 32 @36105 has 1 MA's), (40, 36159), (42, 36165), (43, 36168), (57, 36240), (59, 36246), (60, 36258),

Gene: PhesterPhotato_52 Start: 37160, Stop: 37420, Start Num: 22
Candidate Starts for PhesterPhotato_52:
(Start: 22 @37160 has 90 MA's), (27, 37178), (29, 37187), (30, 37211), (Start: 32 @37232 has 1 MA's), (40, 37286), (42, 37292), (43, 37295), (54, 37358), (57, 37367), (59, 37373), (60, 37385), (62, 37409),

Gene: Philus_54 Start: 38175, Stop: 38435, Start Num: 22
Candidate Starts for Philus_54:
(Start: 22 @38175 has 90 MA's), (27, 38193), (29, 38202), (30, 38226), (Start: 32 @38247 has 1 MA's), (40, 38301), (42, 38307), (43, 38310), (57, 38382), (59, 38388), (60, 38400),

Gene: Phrappuccino_42 Start: 23385, Stop: 23648, Start Num: 26
Candidate Starts for Phrappuccino_42:
(6, 23241), (Start: 26 @23385 has 2 MA's), (34, 23463), (45, 23523), (46, 23541),

Gene: Pippy_50 Start: 36021, Stop: 36290, Start Num: 22
Candidate Starts for Pippy_50:
(Start: 22 @36021 has 90 MA's), (27, 36039), (29, 36048), (30, 36072), (Start: 32 @36093 has 1 MA's), (39, 36135), (40, 36147), (42, 36153), (43, 36156), (51, 36201), (54, 36219), (57, 36237), (59, 36243), (60, 36255),

Gene: Polo2Bam_57 Start: 37055, Stop: 37315, Start Num: 22
Candidate Starts for Polo2Bam_57:
(Start: 22 @37055 has 90 MA's), (27, 37073), (29, 37082), (30, 37106), (Start: 32 @37127 has 1 MA's), (40, 37181), (42, 37187), (43, 37190), (57, 37262), (59, 37268), (60, 37280),

Gene: Renaud18_55 Start: 37223, Stop: 37507, Start Num: 22
Candidate Starts for Renaud18_55:
(Start: 22 @37223 has 90 MA's), (27, 37244), (33, 37304), (36, 37322), (44, 37373), (47, 37400), (48, 37406), (49, 37409), (57, 37448), (61, 37484),

Gene: Rialto_55 Start: 39407, Stop: 39676, Start Num: 22
Candidate Starts for Rialto_55:
(Start: 22 @39407 has 90 MA's), (27, 39425), (29, 39434), (30, 39458), (Start: 32 @39479 has 1 MA's), (39, 39521), (40, 39533), (42, 39539), (43, 39542), (51, 39587), (54, 39605), (57, 39623), (59, 39629), (60, 39641),

Gene: Rita_52 Start: 36039, Stop: 36299, Start Num: 22
Candidate Starts for Rita_52:
(Start: 22 @36039 has 90 MA's), (25, 36048), (30, 36090), (Start: 32 @36111 has 1 MA's), (39, 36153), (40, 36165), (42, 36171), (43, 36174), (54, 36237), (57, 36246), (59, 36252), (60, 36264), (62, 36288),

Gene: SG4_47 Start: 35631, Stop: 35894, Start Num: 22
Candidate Starts for SG4_47:
(Start: 22 @35631 has 90 MA's), (27, 35649), (29, 35658), (30, 35682), (Start: 32 @35703 has 1 MA's), (40, 35757), (42, 35763), (43, 35766), (54, 35829), (57, 35838), (59, 35844), (60, 35856), (62, 35880),

Gene: Saal_53 Start: 38145, Stop: 38408, Start Num: 22
Candidate Starts for Saal_53:
(Start: 22 @38145 has 90 MA's), (27, 38163), (29, 38172), (30, 38196), (Start: 32 @38217 has 1 MA's), (40, 38271), (42, 38277), (43, 38280), (54, 38343), (57, 38352), (59, 38358), (60, 38370), (62, 38394),

Gene: Sarma624_48 Start: 32920, Stop: 33180, Start Num: 22
Candidate Starts for Sarma624_48:

(Start: 22 @32920 has 90 MA's), (27, 32938), (29, 32947), (30, 32971), (Start: 32 @32992 has 1 MA's), (40, 33046), (42, 33052), (43, 33055), (51, 33100), (54, 33118), (57, 33127), (59, 33133), (60, 33145),

Gene: SeaLumen_56 Start: 37055, Stop: 37315, Start Num: 22
Candidate Starts for SeaLumen_56:
(Start: 22 @37055 has 90 MA's), (27, 37073), (29, 37082), (30, 37106), (Start: 32 @37127 has 1 MA's), (40, 37181), (42, 37187), (43, 37190), (57, 37262), (59, 37268), (60, 37280),

Gene: Settecandela_42 Start: 23385, Stop: 23648, Start Num: 26
Candidate Starts for Settecandela_42:
(6, 23241), (Start: 26 @23385 has 2 MA's), (34, 23463), (45, 23523), (46, 23541),

Gene: Shauna1_45 Start: 36023, Stop: 36283, Start Num: 22
Candidate Starts for Shauna1_45:
(Start: 22 @36023 has 90 MA's), (25, 36032), (30, 36074), (Start: 32 @36095 has 1 MA's), (40, 36149), (42, 36155), (43, 36158), (57, 36230), (59, 36236), (60, 36248),

Gene: ShroomBoi_50 Start: 36513, Stop: 36773, Start Num: 22
Candidate Starts for ShroomBoi_50:
(Start: 22 @36513 has 90 MA's), (27, 36531), (29, 36540), (30, 36564), (Start: 32 @36585 has 1 MA's), (40, 36639), (42, 36645), (43, 36648), (57, 36720), (59, 36726), (60, 36738),

Gene: SilverChicken_58 Start: 36158, Stop: 36418, Start Num: 22
Candidate Starts for SilverChicken_58:
(20, 36131), (Start: 22 @36158 has 90 MA's), (27, 36176), (29, 36185), (30, 36209), (Start: 32 @36230 has 1 MA's), (40, 36284), (42, 36290), (43, 36293), (54, 36356), (57, 36365), (59, 36371), (60, 36383), (62, 36407),

Gene: SimranZ1_49 Start: 35859, Stop: 36119, Start Num: 22
Candidate Starts for SimranZ1_49:
(Start: 22 @35859 has 90 MA's), (25, 35868), (30, 35910), (Start: 32 @35931 has 1 MA's), (39, 35973), (40, 35985), (42, 35991), (43, 35994), (52, 36048), (54, 36057), (57, 36066), (59, 36072), (60, 36084), (62, 36108),

Gene: Soul22_54 Start: 36760, Stop: 37020, Start Num: 22
Candidate Starts for Soul22_54:
(Start: 22 @36760 has 90 MA's), (27, 36778), (29, 36787), (30, 36811), (Start: 32 @36832 has 1 MA's), (40, 36886), (42, 36892), (43, 36895), (57, 36967), (59, 36973), (60, 36985), (62, 37009),

Gene: Spartacus_52 Start: 37005, Stop: 37265, Start Num: 22
Candidate Starts for Spartacus_52:
(Start: 22 @37005 has 90 MA's), (27, 37023), (29, 37032), (30, 37056), (Start: 32 @37077 has 1 MA's), (40, 37131), (42, 37137), (43, 37140), (51, 37185), (54, 37203), (57, 37212), (59, 37218), (60, 37230),

Gene: Squirty_44 Start: 33796, Stop: 34068, Start Num: 23
Candidate Starts for Squirty_44:
(19, 33769), (Start: 23 @33796 has 2 MA's), (30, 33850), (Start: 32 @33871 has 1 MA's), (37, 33898), (41, 33931), (53, 33997),

Gene: StAnnes_49 Start: 36877, Stop: 37140, Start Num: 22
Candidate Starts for StAnnes_49:
(Start: 22 @36877 has 90 MA's), (27, 36895), (29, 36904), (30, 36928), (Start: 32 @36949 has 1 MA's), (40, 37003), (42, 37009), (43, 37012), (54, 37075), (57, 37084), (59, 37090), (60, 37102), (62, 37126),

Gene: Stellammi_65 Start: 39104, Stop: 39328, Start Num: 32
Candidate Starts for Stellammi_65:
(12, 38903), (13, 38906), (17, 38945), (18, 38954), (24, 39020), (28, 39047), (31, 39092), (Start: 32 @39104 has 1 MA's), (35, 39122), (38, 39134), (50, 39224), (51, 39227), (55, 39251), (63, 39320),

Gene: Strokeseat_47 Start: 35111, Stop: 35371, Start Num: 22
Candidate Starts for Strokeseat_47:
(Start: 22 @35111 has 90 MA's), (27, 35129), (29, 35138), (30, 35162), (Start: 32 @35183 has 1 MA's), (40, 35237), (42, 35243), (43, 35246), (57, 35318), (59, 35324), (60, 35336),

Gene: SuperGrey_50 Start: 37482, Stop: 37742, Start Num: 22
Candidate Starts for SuperGrey_50:
(Start: 22 @37482 has 90 MA's), (27, 37500), (29, 37509), (30, 37533), (Start: 32 @37554 has 1 MA's), (40, 37608), (42, 37614), (43, 37617), (57, 37689), (59, 37695), (60, 37707),

Gene: SwagPigglett_56 Start: 39180, Stop: 39440, Start Num: 22
Candidate Starts for SwagPigglett_56:
(1, 38517), (2, 38688), (3, 38754), (Start: 14 @39081 has 4 MA's), (15, 39096), (21, 39150), (Start: 22 @39180 has 90 MA's), (27, 39198), (29, 39207), (30, 39231), (Start: 32 @39252 has 1 MA's), (40, 39306), (42, 39312), (43, 39315), (57, 39387), (59, 39393), (60, 39405),

Gene: TChen_50 Start: 37233, Stop: 37508, Start Num: 22
Candidate Starts for TChen_50:
(Start: 22 @37233 has 90 MA's), (30, 37284), (Start: 32 @37305 has 1 MA's), (39, 37347), (40, 37359), (42, 37365), (43, 37368), (56, 37446), (57, 37455), (59, 37461), (60, 37473),

Gene: Taj_53 Start: 37144, Stop: 37428, Start Num: 22
Candidate Starts for Taj_53:
(Start: 22 @37144 has 90 MA's), (27, 37165), (33, 37225), (36, 37243), (44, 37294), (47, 37321), (48, 37327), (49, 37330), (57, 37369), (61, 37405),

Gene: VRedHorse_50 Start: 36119, Stop: 36382, Start Num: 22
Candidate Starts for VRedHorse_50:
(Start: 22 @36119 has 90 MA's), (27, 36137), (29, 36146), (30, 36170), (Start: 32 @36191 has 1 MA's), (40, 36245), (42, 36251), (43, 36254), (57, 36326), (59, 36332), (60, 36344), (62, 36368),

Gene: Velveteen_45 Start: 32920, Stop: 33180, Start Num: 22
Candidate Starts for Velveteen_45:
(Start: 22 @32920 has 90 MA's), (27, 32938), (29, 32947), (30, 32971), (Start: 32 @32992 has 1 MA's), (40, 33046), (42, 33052), (43, 33055), (51, 33100), (54, 33118), (57, 33127), (59, 33133), (60, 33145),

Gene: Violac_53 Start: 38220, Stop: 38480, Start Num: 22
Candidate Starts for Violac_53:
(Start: 22 @38220 has 90 MA's), (27, 38238), (29, 38247), (30, 38271), (Start: 32 @38292 has 1 MA's), (40, 38346), (42, 38352), (43, 38355), (51, 38400), (54, 38418), (57, 38427), (59, 38433), (60, 38445),

Gene: Wachhund_52 Start: 36526, Stop: 36786, Start Num: 22
Candidate Starts for Wachhund_52:
(Start: 22 @36526 has 90 MA's), (27, 36544), (29, 36553), (30, 36577), (Start: 32 @36598 has 1 MA's), (40, 36652), (42, 36658), (43, 36661), (57, 36733), (59, 36739), (60, 36751),

Gene: Wee_52 Start: 37416, Stop: 37700, Start Num: 22

Candidate Starts for Wee_52:
(Start: 22 @37416 has 90 MA's), (27, 37437), (33, 37497), (36, 37515), (44, 37566), (47, 37593), (48, 37599), (49, 37602), (57, 37641), (61, 37677),

Gene: Whatsapiecost_49 Start: 35788, Stop: 36048, Start Num: 22
Candidate Starts for Whatsapiecost_49:
(Start: 22 @35788 has 90 MA's), (27, 35806), (29, 35815), (30, 35839), (Start: 32 @35860 has 1 MA's), (40, 35914), (42, 35920), (43, 35923), (57, 35995), (59, 36001), (60, 36013), (62, 36037),

Gene: WillSterrel_51 Start: 38121, Stop: 38381, Start Num: 22
Candidate Starts for WillSterrel_51:
(Start: 22 @38121 has 90 MA's), (27, 38139), (29, 38148), (30, 38172), (Start: 32 @38193 has 1 MA's), (40, 38247), (42, 38253), (43, 38256), (51, 38301), (54, 38319), (57, 38328), (59, 38334), (60, 38346),

Gene: XFactor_48 Start: 35606, Stop: 35869, Start Num: 22
Candidate Starts for XFactor_48:
(Start: 22 @35606 has 90 MA's), (27, 35624), (29, 35633), (30, 35657), (Start: 32 @35678 has 1 MA's), (40, 35732), (42, 35738), (43, 35741), (54, 35804), (57, 35813), (59, 35819), (60, 35831), (62, 35855),

Gene: Zizzle_56 Start: 38765, Stop: 39124, Start Num: 14
Candidate Starts for Zizzle_56:
(1, 38201), (2, 38372), (3, 38438), (Start: 14 @38765 has 4 MA's), (15, 38780), (21, 38834), (Start: 22 @38864 has 90 MA's), (27, 38882), (29, 38891), (30, 38915), (Start: 32 @38936 has 1 MA's), (40, 38990), (42, 38996), (43, 38999), (57, 39071), (59, 39077), (60, 39089),