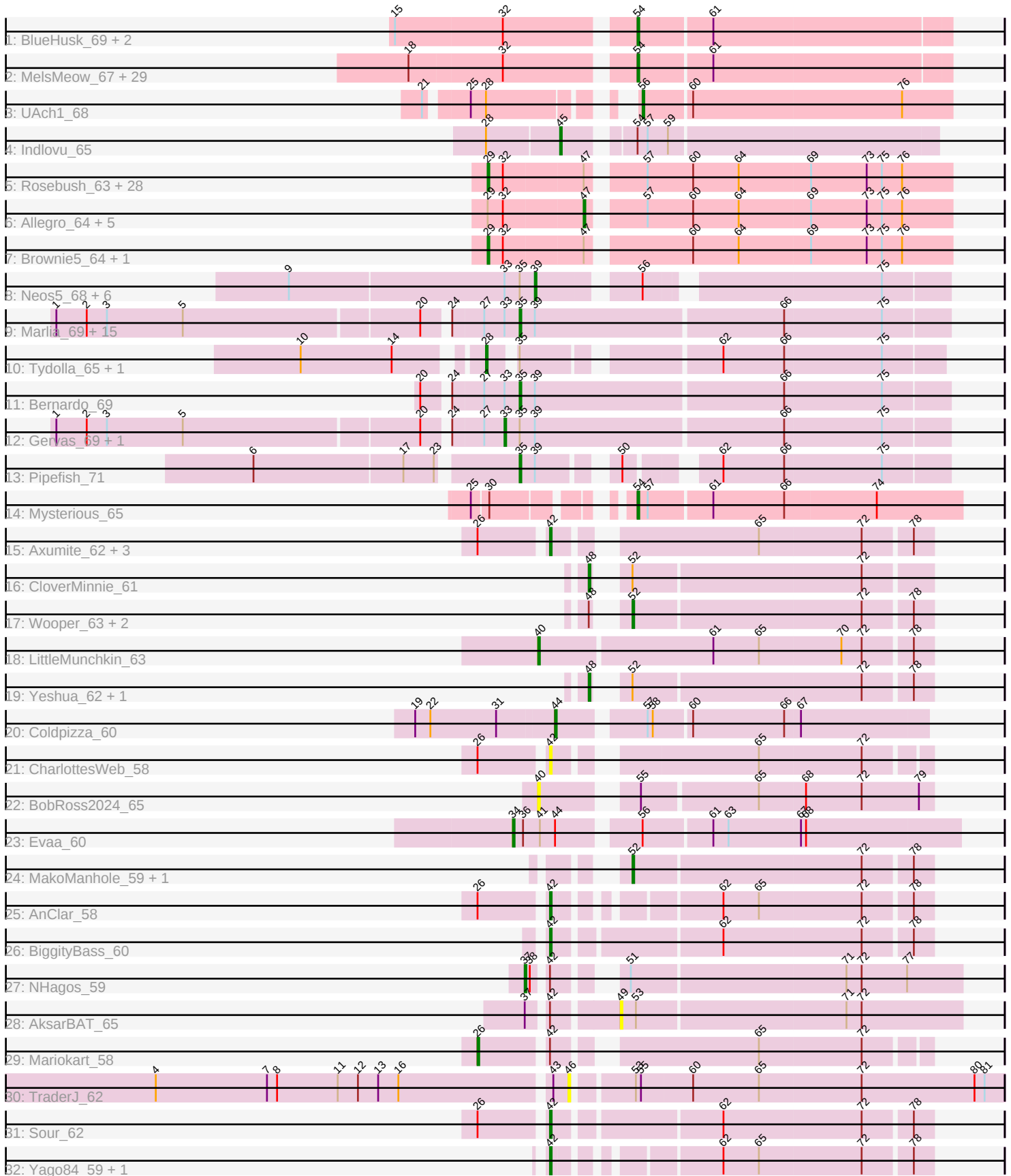


Pham 280204



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 280204 Report

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

Pham number 280204 has 128 members, 16 are drafts.

Phages represented in each track:

- Track 1 : BlueHusk_69, Melc17_65, Dati_65
- Track 2 : MelsMeow_67, Buckeye_68, Phareon_66, Inverness_66, Basato_67, DonSanchon_64, Grand2040_66, ElvisPhasley_68, Maskar_68, BlackStallion_68, Chorkpop_68, Gyarad_0067, RedRaider89_70, Mikota_65, Dingo_65, Caspiboi_67, ImtiyazSitla_68, Lasso_67, Sheila_64, Adriana_69, GeneCoco_68, TooFast2Furius_69, MiniBoss_65, Hamish_65, AltPhacts_66, Scrick_67, Potter_65, Nathan_68, Horchata_65, Ashraf_68
- Track 3 : UAch1_68
- Track 4 : Indlovu_65
- Track 5 : Rosebush_63, TA17A_66, West99_64, Kheth_64, Tres_64, Ares_64, Rhinoforte_64, Glass_65, Blocker23_64, Calamitous_65, LizLemon_64, Bananafish_65, Kolhan_65, Boyle_64, Lephleur_64, MasterPo_65, Godines_65, ItsyBitsy1_63, FrenchFry_65, LilSmirk_64, Eaglehorse_64, Qyrzula_58, Arbiter_62, Laurie_64, Opia_65, Holeinone_64, Hedgerow_64, Sabella_64, PrinceCharming_65
- Track 6 : Allegro_64, Faze9_63, Coffee_64, Kaleb_65, Vic9_00063, Phantasmagoria_63
- Track 7 : Brownie5_64, Tinciduntolum_65
- Track 8 : Neos5_68, Obutu_70, SlippinJimmy_71, Briakila_68, Chentzyk_70, Marley1013_69, Phayeta_71
- Track 9 : Marlia_69, Kronus_68, MmasiCarm_69, Chandler_68, Compostia_67, Yahalom_66, Akoma_68, Mulaychimus_69, Phaedrus_63, LestyG_66, Kamiyu_68, Shenandoah_67, Mortcellus_68, SwainyDoc_69, Olivio_68, Daisy_67
- Track 10 : Tydolla_65, HarveySr_67
- Track 11 : Bernardo_69
- Track 12 : Gervas_69, Ben11_68
- Track 13 : Pipefish_71
- Track 14 : Mysterious_65
- Track 15 : Axumite_62, Shatter_62, Ligma_62, Fresco_62
- Track 16 : CloverMinnie_61
- Track 17 : Wooper_63, FelixTres_63, Blackpen_61
- Track 18 : LittleMunchkin_63
- Track 19 : Yeshua_62, AnarQue_64
- Track 20 : Coldpizza_60
- Track 21 : CharlottesWeb_58
- Track 22 : BobRoss2024_65
- Track 23 : Evaa_60
- Track 24 : MakoManhole_59, CaiB_62

- Track 25 : AnClar_58
- Track 26 : BiggityBass_60
- Track 27 : NHagos_59
- Track 28 : AksarBAT_65
- Track 29 : Mariokart_58
- Track 30 : TraderJ_62
- Track 31 : Sour_62
- Track 32 : Yago84_59, Sisko_60

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

The start number called the most often in the published annotations is 54, it was called in 32 of the 112 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adriana_69, AltPhacts_66, Ashraf_68, Basato_67, BlackStallion_68, BlueHusk_69, Buckeye_68, Caspiboi_67, Chorkpop_68, Dati_65, Dingo_65, DonSanchon_64, ElvisPhasley_68, GeneCoco_68, Grand2040_66, Gyarad_0067, Hamish_65, Horchata_65, ImtiyazSitla_68, Inverness_66, Lasso_67, Maskar_68, Melc17_65, MelsMeow_67, Mikota_65, MiniBoss_65, Mysterious_65, Nathan_68, Phareon_66, Potter_65, RedRaider89_70, Scrick_67, Sheila_64, TooFast2Furius_69,

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

- Indlovu_65,

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

- Akoma_68, AksarBAT_65, Allegro_64, AnClar_58, AnarQue_64, Arbiter_62, Ares_64, Axumite_62, Bananafish_65, Ben11_68, Bernardo_69, BiggityBass_60, Blackpen_61, Blocker23_64, BobRoss2024_65, Boyle_64, Briakila_68, Brownie5_64, CaiB_62, Calamitous_65, Chandler_68, CharlottesWeb_58, Chentzyk_70, CloverMinnie_61, Coffee_64, Coldpizza_60, Compostia_67, Daisy_67, Eaglehorse_64, Evaa_60, Faze9_63, FelixTres_63, FrenchFry_65, Fresco_62, Gervas_69, Glass_65, Godines_65, HarveySr_67, Hedgerow_64, Holeinone_64, ItsyBitsy1_63, Kaleb_65, Kamiyu_68, Kheth_64, Kolhan_65, Kronus_68, Laurie_64, Lephleur_64, LestyG_66, Ligma_62, LilSmirk_64, LittleMunchkin_63, LizLemon_64, MakoManhole_59, Mariokart_58, Marley1013_69, Marlia_69, MasterPo_65, MmasiCarm_69, Mortcellus_68, Mulaychimus_69, NHagos_59, Neos5_68, Obutu_70, Olivio_68, Opia_65, Phaedruss_63, Phantasmagoria_63, Phayeta_71, Pipefish_71, PrinceCharming_65, Qyrzula_58, Rhinoforte_64, Rosebush_63, Sabella_64, Shatter_62, Shenandoah_67, Sisko_60, SlippinJimmy_71, Sour_62, SwainyDoc_69, TA17A_66, Tinciduntolum_65, TraderJ_62, Tres_64, Tydolla_65, UAch1_68, Vic9_00063, West99_64, Wooper_63, Yago84_59, Yahalom_66, Yeshua_62,

Summary by start number:

Start 26:

- Found in 8 of 128 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 112
- Called 12.5% of time when present

- Phage (with cluster) where this start called: Mariokart_58 (DR),

Start 28:

- Found in 4 of 128 (3.1%) of genes in pham
- Manual Annotations of this start: 2 of 112
- Called 50.0% of time when present
- Phage (with cluster) where this start called: HarveySr_67 (B3), Tydolla_65 (B3),

Start 29:

- Found in 37 of 128 (28.9%) of genes in pham
- Manual Annotations of this start: 30 of 112
- Called 83.8% of time when present
- Phage (with cluster) where this start called: Arbiter_62 (B2), Ares_64 (B2), Bananafish_65 (B2), Blocker23_64 (B2), Boyle_64 (B2), Brownie5_64 (B2), Calamitous_65 (B2), Eaglehorse_64 (B2), FrenchFry_65 (B2), Glass_65 (B2), Godines_65 (B2), Hedgerow_64 (B2), Holeinone_64 (B2), ItsyBitsy1_63 (B2), Kheth_64 (B2), Kolhan_65 (B2), Laurie_64 (B2), Lephleur_64 (B2), LilSmirk_64 (B2), LizLemon_64 (B2), MasterPo_65 (B2), Opia_65 (B2), PrinceCharming_65 (B2), Qyrzula_58 (B2), Rhinoforte_64 (B2), Rosebush_63 (B2), Sabella_64 (B2), TA17A_66 (B2), Tinciduntolum_65 (B2), Tres_64 (B2), West99_64 (B2),

Start 33:

- Found in 26 of 128 (20.3%) of genes in pham
- Manual Annotations of this start: 2 of 112
- Called 7.7% of time when present
- Phage (with cluster) where this start called: Ben11_68 (B3), Gervas_69 (B3),

Start 34:

- Found in 1 of 128 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 112
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Evaa_60 (DR),

Start 35:

- Found in 29 of 128 (22.7%) of genes in pham
- Manual Annotations of this start: 13 of 112
- Called 62.1% of time when present
- Phage (with cluster) where this start called: Akoma_68 (B3), Bernardo_69 (B3), Chandler_68 (B3), Compostia_67 (B3), Daisy_67 (B3), Kamiyu_68 (B3), Kronus_68 (B3), LestyG_66 (B3), Marlia_69 (B3), MmasiCarm_69 (B3), Mortcellus_68 (B3), Mulaychimus_69 (B3), Olivio_68 (B3), Phaedrus_63 (B3), Pipefish_71 (B3), Shenandoah_67 (B3), SwainyDoc_69 (B3), Yahalom_66 (B3),

Start 37:

- Found in 2 of 128 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 112
- Called 50.0% of time when present
- Phage (with cluster) where this start called: NHagos_59 (DR),

Start 39:

- Found in 27 of 128 (21.1%) of genes in pham
- Manual Annotations of this start: 6 of 112
- Called 25.9% of time when present

- Phage (with cluster) where this start called: Briakila_68 (B3), Chentzyk_70 (B3), Marley1013_69 (B3), Neos5_68 (B3), Obutu_70 (B3), Phayeta_71 (B3), SlippinJimmy_71 (B3),

Start 40:

- Found in 2 of 128 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 112
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BobRoss2024_65 (DR), LittleMunchkin_63 (DR),

Start 42:

- Found in 13 of 128 (10.2%) of genes in pham
- Manual Annotations of this start: 9 of 112
- Called 76.9% of time when present
- Phage (with cluster) where this start called: AnClar_58 (DR), Axumite_62 (DR), BiggityBass_60 (DR), CharlottesWeb_58 (DR), Fresco_62 (DR), Ligma_62 (DR), Shatter_62 (DR), Sisko_60 (DR), Sour_62 (DR), Yago84_59 (DR),

Start 44:

- Found in 2 of 128 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 112
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Coldpizza_60 (DR),

Start 45:

- Found in 1 of 128 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 112
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Indlovu_65 (B11),

Start 46:

- Found in 1 of 128 (0.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TraderJ_62 (DR),

Start 47:

- Found in 37 of 128 (28.9%) of genes in pham
- Manual Annotations of this start: 5 of 112
- Called 16.2% of time when present
- Phage (with cluster) where this start called: Allegro_64 (B2), Coffee_64 (B2), Faze9_63 (B2), Kaleb_65 (B2), Phantasmagoria_63 (B2), Vic9_00063 (B2),

Start 48:

- Found in 6 of 128 (4.7%) of genes in pham
- Manual Annotations of this start: 3 of 112
- Called 50.0% of time when present
- Phage (with cluster) where this start called: AnarQue_64 (DR), CloverMinnie_61 (DR), Yeshua_62 (DR),

Start 49:

- Found in 1 of 128 (0.8%) of genes in pham

- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AksarBAT_65 (DR),

Start 52:

- Found in 8 of 128 (6.2%) of genes in pham
- Manual Annotations of this start: 3 of 112
- Called 62.5% of time when present
- Phage (with cluster) where this start called: Blackpen_61 (DR), CaiB_62 (DR), FelixTres_63 (DR), MakoManhole_59 (DR), Wooper_63 (DR),

Start 54:

- Found in 35 of 128 (27.3%) of genes in pham
- Manual Annotations of this start: 32 of 112
- Called 97.1% of time when present
- Phage (with cluster) where this start called: Adriana_69 (B1), AltPhacts_66 (B1), Ashraf_68 (B1), Basato_67 (B1), BlackStallion_68 (B1), BlueHusk_69 (B1), Buckeye_68 (B1), CaspiBoi_67 (B1), Chorkpop_68 (B1), Dati_65 (B1), Dingo_65 (B1), DonSancho_64 (B1), ElvisPhasley_68 (B1), GeneCoco_68 (B1), Grand2040_66 (B1), Gyarad_0067 (B1), Hamish_65 (B1), Horchata_65 (B1), ImtiyazSitla_68 (B1), Inverness_66 (B1), Lasso_67 (B1), Maskar_68 (B1), Melc17_65 (B1), MelsMeow_67 (B1), Mikota_65 (B1), MiniBoss_65 (B1), Mysterious_65 (B5), Nathan_68 (B1), Phareon_66 (B1), Potter_65 (B1), RedRaider89_70 (B1), Scrick_67 (B1), Sheila_64 (B1), TooFast2Furius_69 (B1),

Start 56:

- Found in 9 of 128 (7.0%) of genes in pham
- Manual Annotations of this start: 1 of 112
- Called 11.1% of time when present
- Phage (with cluster) where this start called: UACh1_68 (B1),

Summary by clusters:

There are 6 clusters represented in this pham: B3, B5, B1, B2, B11, DR,

Info for manual annotations of cluster B1:

- Start number 54 was manually annotated 31 times for cluster B1.
- Start number 56 was manually annotated 1 time for cluster B1.

Info for manual annotations of cluster B11:

- Start number 45 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B2:

- Start number 29 was manually annotated 30 times for cluster B2.
- Start number 47 was manually annotated 5 times for cluster B2.

Info for manual annotations of cluster B3:

- Start number 28 was manually annotated 2 times for cluster B3.
- Start number 33 was manually annotated 2 times for cluster B3.
- Start number 35 was manually annotated 13 times for cluster B3.
- Start number 39 was manually annotated 6 times for cluster B3.

Info for manual annotations of cluster B5:

- Start number 54 was manually annotated 1 time for cluster B5.

Info for manual annotations of cluster DR:

- Start number 26 was manually annotated 1 time for cluster DR.
- Start number 34 was manually annotated 1 time for cluster DR.
- Start number 37 was manually annotated 1 time for cluster DR.
- Start number 40 was manually annotated 1 time for cluster DR.
- Start number 42 was manually annotated 9 times for cluster DR.
- Start number 44 was manually annotated 1 time for cluster DR.
- Start number 48 was manually annotated 3 times for cluster DR.
- Start number 52 was manually annotated 3 times for cluster DR.

Gene Information:

Gene: Adriana_69 Start: 57994, Stop: 58173, Start Num: 54

Candidate Starts for Adriana_69:

(18, 57871), (32, 57925), (Start: 54 @57994 has 32 MA's), (61, 58036),

Gene: Akoma_68 Start: 57286, Stop: 57534, Start Num: 35

Candidate Starts for Akoma_68:

(1, 57025), (2, 57043), (3, 57055), (5, 57100), (20, 57235), (24, 57247), (27, 57265), (Start: 33 @57277 has 2 MA's), (Start: 35 @57286 has 13 MA's), (Start: 39 @57295 has 6 MA's), (66, 57439), (75, 57496),

Gene: AksarBAT_65 Start: 51976, Stop: 52173, Start Num: 49

Candidate Starts for AksarBAT_65:

(Start: 37 @51946 has 1 MA's), (Start: 42 @51955 has 9 MA's), (49, 51976), (53, 51985), (71, 52105), (72, 52114),

Gene: Allegro_64 Start: 55516, Stop: 55722, Start Num: 47

Candidate Starts for Allegro_64:

(Start: 29 @55462 has 30 MA's), (32, 55471), (Start: 47 @55516 has 5 MA's), (57, 55543), (60, 55570), (64, 55597), (69, 55639), (73, 55672), (75, 55681), (76, 55693),

Gene: AltPhacts_66 Start: 56481, Stop: 56660, Start Num: 54

Candidate Starts for AltPhacts_66:

(18, 56358), (32, 56412), (Start: 54 @56481 has 32 MA's), (61, 56523),

Gene: AnClar_58 Start: 51779, Stop: 51976, Start Num: 42

Candidate Starts for AnClar_58:

(Start: 26 @51743 has 1 MA's), (Start: 42 @51779 has 9 MA's), (62, 51857), (65, 51878), (72, 51938), (78, 51965),

Gene: AnarQue_64 Start: 52219, Stop: 52398, Start Num: 48

Candidate Starts for AnarQue_64:

(Start: 48 @52219 has 3 MA's), (Start: 52 @52228 has 3 MA's), (72, 52360), (78, 52387),

Gene: Arbiter_62 Start: 55569, Stop: 55829, Start Num: 29

Candidate Starts for Arbiter_62:

(Start: 29 @55569 has 30 MA's), (32, 55578), (Start: 47 @55623 has 5 MA's), (57, 55650), (60, 55677), (64, 55704), (69, 55746), (73, 55779), (75, 55788), (76, 55800),

Gene: Ares_64 Start: 55540, Stop: 55800, Start Num: 29

Candidate Starts for Ares_64:

(Start: 29 @55540 has 30 MA's), (32, 55549), (Start: 47 @55594 has 5 MA's), (57, 55621), (60, 55648), (64, 55675), (69, 55717), (73, 55750), (75, 55759), (76, 55771),

Gene: Ashraf_68 Start: 57146, Stop: 57325, Start Num: 54

Candidate Starts for Ashraf_68:

(18, 57023), (32, 57077), (Start: 54 @57146 has 32 MA's), (61, 57188),

Gene: Axumite_62 Start: 50626, Stop: 50826, Start Num: 42

Candidate Starts for Axumite_62:

(Start: 26 @50590 has 1 MA's), (Start: 42 @50626 has 9 MA's), (65, 50728), (72, 50788), (78, 50815),

Gene: Bananafish_65 Start: 55470, Stop: 55730, Start Num: 29

Candidate Starts for Bananafish_65:

(Start: 29 @55470 has 30 MA's), (32, 55479), (Start: 47 @55524 has 5 MA's), (57, 55551), (60, 55578), (64, 55605), (69, 55647), (73, 55680), (75, 55689), (76, 55701),

Gene: Basato_67 Start: 57199, Stop: 57378, Start Num: 54

Candidate Starts for Basato_67:

(18, 57076), (32, 57130), (Start: 54 @57199 has 32 MA's), (61, 57241),

Gene: Ben11_68 Start: 57494, Stop: 57751, Start Num: 33

Candidate Starts for Ben11_68:

(1, 57242), (2, 57260), (3, 57272), (5, 57317), (20, 57452), (24, 57464), (27, 57482), (Start: 33 @57494 has 2 MA's), (Start: 35 @57503 has 13 MA's), (Start: 39 @57512 has 6 MA's), (66, 57656), (75, 57713),

Gene: Bernardo_69 Start: 57484, Stop: 57732, Start Num: 35

Candidate Starts for Bernardo_69:

(20, 57433), (24, 57445), (27, 57463), (Start: 33 @57475 has 2 MA's), (Start: 35 @57484 has 13 MA's), (Start: 39 @57493 has 6 MA's), (66, 57637), (75, 57694),

Gene: BiggityBass_60 Start: 52323, Stop: 52532, Start Num: 42

Candidate Starts for BiggityBass_60:

(Start: 42 @52323 has 9 MA's), (62, 52413), (72, 52494), (78, 52521),

Gene: BlackStallion_68 Start: 57193, Stop: 57372, Start Num: 54

Candidate Starts for BlackStallion_68:

(18, 57070), (32, 57124), (Start: 54 @57193 has 32 MA's), (61, 57235),

Gene: Blackpen_61 Start: 50667, Stop: 50837, Start Num: 52

Candidate Starts for Blackpen_61:

(Start: 48 @50658 has 3 MA's), (Start: 52 @50667 has 3 MA's), (72, 50799), (78, 50826),

Gene: Blocker23_64 Start: 55537, Stop: 55797, Start Num: 29

Candidate Starts for Blocker23_64:

(Start: 29 @55537 has 30 MA's), (32, 55546), (Start: 47 @55591 has 5 MA's), (57, 55618), (60, 55645), (64, 55672), (69, 55714), (73, 55747), (75, 55756), (76, 55768),

Gene: BlueHusk_69 Start: 56949, Stop: 57128, Start Num: 54

Candidate Starts for BlueHusk_69:

(15, 56817), (32, 56880), (Start: 54 @56949 has 32 MA's), (61, 56991),

Gene: BobRoss2024_65 Start: 51837, Stop: 52049, Start Num: 40

Candidate Starts for BobRoss2024_65:

(Start: 40 @51837 has 1 MA's), (55, 51882), (65, 51948), (68, 51975), (72, 52008), (79, 52041),

Gene: Boyle_64 Start: 55578, Stop: 55838, Start Num: 29

Candidate Starts for Boyle_64:

(Start: 29 @55578 has 30 MA's), (32, 55587), (Start: 47 @55632 has 5 MA's), (57, 55659), (60, 55686), (64, 55713), (69, 55755), (73, 55788), (75, 55797), (76, 55809),

Gene: Briakila_68 Start: 57517, Stop: 57732, Start Num: 39

Candidate Starts for Briakila_68:

(9, 57373), (Start: 33 @57499 has 2 MA's), (Start: 35 @57508 has 13 MA's), (Start: 39 @57517 has 6 MA's), (Start: 56 @57568 has 1 MA's), (75, 57694),

Gene: Brownie5_64 Start: 55580, Stop: 55840, Start Num: 29

Candidate Starts for Brownie5_64:

(Start: 29 @55580 has 30 MA's), (32, 55589), (Start: 47 @55634 has 5 MA's), (60, 55688), (64, 55715), (69, 55757), (73, 55790), (75, 55799), (76, 55811),

Gene: Buckeye_68 Start: 58013, Stop: 58192, Start Num: 54

Candidate Starts for Buckeye_68:

(18, 57890), (32, 57944), (Start: 54 @58013 has 32 MA's), (61, 58055),

Gene: CaiB_62 Start: 52012, Stop: 52182, Start Num: 52

Candidate Starts for CaiB_62:

(Start: 52 @52012 has 3 MA's), (72, 52144), (78, 52171),

Gene: Calamitous_65 Start: 55468, Stop: 55728, Start Num: 29

Candidate Starts for Calamitous_65:

(Start: 29 @55468 has 30 MA's), (32, 55477), (Start: 47 @55522 has 5 MA's), (57, 55549), (60, 55576), (64, 55603), (69, 55645), (73, 55678), (75, 55687), (76, 55699),

Gene: Caspiroi_67 Start: 57156, Stop: 57335, Start Num: 54

Candidate Starts for Caspiroi_67:

(18, 57033), (32, 57087), (Start: 54 @57156 has 32 MA's), (61, 57198),

Gene: Chandler_68 Start: 58065, Stop: 58313, Start Num: 35

Candidate Starts for Chandler_68:

(1, 57804), (2, 57822), (3, 57834), (5, 57879), (20, 58014), (24, 58026), (27, 58044), (Start: 33 @58056 has 2 MA's), (Start: 35 @58065 has 13 MA's), (Start: 39 @58074 has 6 MA's), (66, 58218), (75, 58275),

Gene: CharlottesWeb_58 Start: 49213, Stop: 49410, Start Num: 42

Candidate Starts for CharlottesWeb_58:

(Start: 26 @49177 has 1 MA's), (Start: 42 @49213 has 9 MA's), (65, 49315), (72, 49375),

Gene: Chentzyk_70 Start: 58269, Stop: 58484, Start Num: 39

Candidate Starts for Chentzyk_70:

(9, 58125), (Start: 33 @58251 has 2 MA's), (Start: 35 @58260 has 13 MA's), (Start: 39 @58269 has 6 MA's), (Start: 56 @58320 has 1 MA's), (75, 58446),

Gene: Chorkpop_68 Start: 56930, Stop: 57109, Start Num: 54
Candidate Starts for Chorkpop_68:
(18, 56807), (32, 56861), (Start: 54 @56930 has 32 MA's), (61, 56972),

Gene: CloverMinnie_61 Start: 51166, Stop: 51345, Start Num: 48
Candidate Starts for CloverMinnie_61:
(Start: 48 @51166 has 3 MA's), (Start: 52 @51175 has 3 MA's), (72, 51307),

Gene: Coffee_64 Start: 55626, Stop: 55832, Start Num: 47
Candidate Starts for Coffee_64:
(Start: 29 @55572 has 30 MA's), (32, 55581), (Start: 47 @55626 has 5 MA's), (57, 55653), (60, 55680),
(64, 55707), (69, 55749), (73, 55782), (75, 55791), (76, 55803),

Gene: Coldpizza_60 Start: 52423, Stop: 52629, Start Num: 44
Candidate Starts for Coldpizza_60:
(19, 52342), (22, 52351), (31, 52390), (Start: 44 @52423 has 1 MA's), (57, 52468), (58, 52471), (60,
52492), (66, 52546), (67, 52555),

Gene: Compostia_67 Start: 57686, Stop: 57934, Start Num: 35
Candidate Starts for Compostia_67:
(1, 57425), (2, 57443), (3, 57455), (5, 57500), (20, 57635), (24, 57647), (27, 57665), (Start: 33 @57677
has 2 MA's), (Start: 35 @57686 has 13 MA's), (Start: 39 @57695 has 6 MA's), (66, 57839), (75,
57896),

Gene: Daisy_67 Start: 56849, Stop: 57097, Start Num: 35
Candidate Starts for Daisy_67:
(1, 56588), (2, 56606), (3, 56618), (5, 56663), (20, 56798), (24, 56810), (27, 56828), (Start: 33 @56840
has 2 MA's), (Start: 35 @56849 has 13 MA's), (Start: 39 @56858 has 6 MA's), (66, 57002), (75,
57059),

Gene: Dati_65 Start: 57259, Stop: 57438, Start Num: 54
Candidate Starts for Dati_65:
(15, 57127), (32, 57190), (Start: 54 @57259 has 32 MA's), (61, 57301),

Gene: Dingo_65 Start: 56457, Stop: 56636, Start Num: 54
Candidate Starts for Dingo_65:
(18, 56334), (32, 56388), (Start: 54 @56457 has 32 MA's), (61, 56499),

Gene: DonSanchon_64 Start: 56612, Stop: 56791, Start Num: 54
Candidate Starts for DonSanchon_64:
(18, 56489), (32, 56543), (Start: 54 @56612 has 32 MA's), (61, 56654),

Gene: Eaglehorse_64 Start: 55458, Stop: 55718, Start Num: 29
Candidate Starts for Eaglehorse_64:
(Start: 29 @55458 has 30 MA's), (32, 55467), (Start: 47 @55512 has 5 MA's), (57, 55539), (60, 55566),
(64, 55593), (69, 55635), (73, 55668), (75, 55677), (76, 55689),

Gene: ElvisPhasley_68 Start: 57946, Stop: 58125, Start Num: 54
Candidate Starts for ElvisPhasley_68:
(18, 57823), (32, 57877), (Start: 54 @57946 has 32 MA's), (61, 57988),

Gene: Evaa_60 Start: 49769, Stop: 50017, Start Num: 34
Candidate Starts for Evaa_60:

(Start: 34 @49769 has 1 MA's), (36, 49775), (41, 49784), (Start: 44 @49793 has 1 MA's), (Start: 56 @49835 has 1 MA's), (61, 49874), (63, 49883), (67, 49925), (68, 49928),

Gene: Faze9_63 Start: 55651, Stop: 55857, Start Num: 47

Candidate Starts for Faze9_63:

(Start: 29 @55597 has 30 MA's), (32, 55606), (Start: 47 @55651 has 5 MA's), (57, 55678), (60, 55705), (64, 55732), (69, 55774), (73, 55807), (75, 55816), (76, 55828),

Gene: FelixTres_63 Start: 51482, Stop: 51652, Start Num: 52

Candidate Starts for FelixTres_63:

(Start: 48 @51473 has 3 MA's), (Start: 52 @51482 has 3 MA's), (72, 51614), (78, 51641),

Gene: FrenchFry_65 Start: 55583, Stop: 55843, Start Num: 29

Candidate Starts for FrenchFry_65:

(Start: 29 @55583 has 30 MA's), (32, 55592), (Start: 47 @55637 has 5 MA's), (57, 55664), (60, 55691), (64, 55718), (69, 55760), (73, 55793), (75, 55802), (76, 55814),

Gene: Fresco_62 Start: 50626, Stop: 50826, Start Num: 42

Candidate Starts for Fresco_62:

(Start: 26 @50590 has 1 MA's), (Start: 42 @50626 has 9 MA's), (65, 50728), (72, 50788), (78, 50815),

Gene: GeneCoco_68 Start: 57462, Stop: 57641, Start Num: 54

Candidate Starts for GeneCoco_68:

(18, 57339), (32, 57393), (Start: 54 @57462 has 32 MA's), (61, 57504),

Gene: Gervas_69 Start: 57701, Stop: 57958, Start Num: 33

Candidate Starts for Gervas_69:

(1, 57449), (2, 57467), (3, 57479), (5, 57524), (20, 57659), (24, 57671), (27, 57689), (Start: 33 @57701 has 2 MA's), (Start: 35 @57710 has 13 MA's), (Start: 39 @57719 has 6 MA's), (66, 57863), (75, 57920),

Gene: Glass_65 Start: 55585, Stop: 55845, Start Num: 29

Candidate Starts for Glass_65:

(Start: 29 @55585 has 30 MA's), (32, 55594), (Start: 47 @55639 has 5 MA's), (57, 55666), (60, 55693), (64, 55720), (69, 55762), (73, 55795), (75, 55804), (76, 55816),

Gene: Godines_65 Start: 55844, Stop: 56104, Start Num: 29

Candidate Starts for Godines_65:

(Start: 29 @55844 has 30 MA's), (32, 55853), (Start: 47 @55898 has 5 MA's), (57, 55925), (60, 55952), (64, 55979), (69, 56021), (73, 56054), (75, 56063), (76, 56075),

Gene: Grand2040_66 Start: 57405, Stop: 57584, Start Num: 54

Candidate Starts for Grand2040_66:

(18, 57282), (32, 57336), (Start: 54 @57405 has 32 MA's), (61, 57447),

Gene: Gyarad_0067 Start: 56782, Stop: 56961, Start Num: 54

Candidate Starts for Gyarad_0067:

(18, 56659), (32, 56713), (Start: 54 @56782 has 32 MA's), (61, 56824),

Gene: Hamish_65 Start: 56845, Stop: 57024, Start Num: 54

Candidate Starts for Hamish_65:

(18, 56722), (32, 56776), (Start: 54 @56845 has 32 MA's), (61, 56887),

Gene: HarveySr_67 Start: 56727, Stop: 56969, Start Num: 28

Candidate Starts for HarveySr_67:

(10, 56631), (14, 56685), (Start: 28 @56727 has 2 MA's), (Start: 35 @56739 has 13 MA's), (62, 56841), (66, 56877), (75, 56934),

Gene: Hedgerow_64 Start: 55555, Stop: 55815, Start Num: 29

Candidate Starts for Hedgerow_64:

(Start: 29 @55555 has 30 MA's), (32, 55564), (Start: 47 @55609 has 5 MA's), (57, 55636), (60, 55663), (64, 55690), (69, 55732), (73, 55765), (75, 55774), (76, 55786),

Gene: Holeinone_64 Start: 55443, Stop: 55703, Start Num: 29

Candidate Starts for Holeinone_64:

(Start: 29 @55443 has 30 MA's), (32, 55452), (Start: 47 @55497 has 5 MA's), (57, 55524), (60, 55551), (64, 55578), (69, 55620), (73, 55653), (75, 55662), (76, 55674),

Gene: Horchata_65 Start: 56937, Stop: 57116, Start Num: 54

Candidate Starts for Horchata_65:

(18, 56814), (32, 56868), (Start: 54 @56937 has 32 MA's), (61, 56979),

Gene: ImtiyazSitla_68 Start: 57146, Stop: 57325, Start Num: 54

Candidate Starts for ImtiyazSitla_68:

(18, 57023), (32, 57077), (Start: 54 @57146 has 32 MA's), (61, 57188),

Gene: Indlovu_65 Start: 58320, Stop: 58526, Start Num: 45

Candidate Starts for Indlovu_65:

(Start: 28 @58278 has 2 MA's), (Start: 45 @58320 has 1 MA's), (Start: 54 @58353 has 32 MA's), (57, 58359), (59, 58371),

Gene: Inverness_66 Start: 56946, Stop: 57125, Start Num: 54

Candidate Starts for Inverness_66:

(18, 56823), (32, 56877), (Start: 54 @56946 has 32 MA's), (61, 56988),

Gene: ItsyBitsy1_63 Start: 55673, Stop: 55933, Start Num: 29

Candidate Starts for ItsyBitsy1_63:

(Start: 29 @55673 has 30 MA's), (32, 55682), (Start: 47 @55727 has 5 MA's), (57, 55754), (60, 55781), (64, 55808), (69, 55850), (73, 55883), (75, 55892), (76, 55904),

Gene: Kaleb_65 Start: 55644, Stop: 55850, Start Num: 47

Candidate Starts for Kaleb_65:

(Start: 29 @55590 has 30 MA's), (32, 55599), (Start: 47 @55644 has 5 MA's), (57, 55671), (60, 55698), (64, 55725), (69, 55767), (73, 55800), (75, 55809), (76, 55821),

Gene: Kamiyu_68 Start: 57245, Stop: 57493, Start Num: 35

Candidate Starts for Kamiyu_68:

(1, 56984), (2, 57002), (3, 57014), (5, 57059), (20, 57194), (24, 57206), (27, 57224), (Start: 33 @57236 has 2 MA's), (Start: 35 @57245 has 13 MA's), (Start: 39 @57254 has 6 MA's), (66, 57398), (75, 57455),

Gene: Kheth_64 Start: 55502, Stop: 55762, Start Num: 29

Candidate Starts for Kheth_64:

(Start: 29 @55502 has 30 MA's), (32, 55511), (Start: 47 @55556 has 5 MA's), (57, 55583), (60, 55610), (64, 55637), (69, 55679), (73, 55712), (75, 55721), (76, 55733),

Gene: Kolhan_65 Start: 55479, Stop: 55739, Start Num: 29

Candidate Starts for Kolhan_65:

(Start: 29 @55479 has 30 MA's), (32, 55488), (Start: 47 @55533 has 5 MA's), (57, 55560), (60, 55587), (64, 55614), (69, 55656), (73, 55689), (75, 55698), (76, 55710),

Gene: Kronus_68 Start: 58341, Stop: 58589, Start Num: 35

Candidate Starts for Kronus_68:

(1, 58080), (2, 58098), (3, 58110), (5, 58155), (20, 58290), (24, 58302), (27, 58320), (Start: 33 @58332 has 2 MA's), (Start: 35 @58341 has 13 MA's), (Start: 39 @58350 has 6 MA's), (66, 58494), (75, 58551),

Gene: Lasso_67 Start: 57164, Stop: 57343, Start Num: 54

Candidate Starts for Lasso_67:

(18, 57041), (32, 57095), (Start: 54 @57164 has 32 MA's), (61, 57206),

Gene: Laurie_64 Start: 55263, Stop: 55523, Start Num: 29

Candidate Starts for Laurie_64:

(Start: 29 @55263 has 30 MA's), (32, 55272), (Start: 47 @55317 has 5 MA's), (57, 55344), (60, 55371), (64, 55398), (69, 55440), (73, 55473), (75, 55482), (76, 55494),

Gene: Lephleur_64 Start: 55428, Stop: 55688, Start Num: 29

Candidate Starts for Lephleur_64:

(Start: 29 @55428 has 30 MA's), (32, 55437), (Start: 47 @55482 has 5 MA's), (57, 55509), (60, 55536), (64, 55563), (69, 55605), (73, 55638), (75, 55647), (76, 55659),

Gene: LestyG_66 Start: 56771, Stop: 57019, Start Num: 35

Candidate Starts for LestyG_66:

(1, 56510), (2, 56528), (3, 56540), (5, 56585), (20, 56720), (24, 56732), (27, 56750), (Start: 33 @56762 has 2 MA's), (Start: 35 @56771 has 13 MA's), (Start: 39 @56780 has 6 MA's), (66, 56924), (75, 56981),

Gene: Ligma_62 Start: 50626, Stop: 50826, Start Num: 42

Candidate Starts for Ligma_62:

(Start: 26 @50590 has 1 MA's), (Start: 42 @50626 has 9 MA's), (65, 50728), (72, 50788), (78, 50815),

Gene: LilSmirk_64 Start: 55461, Stop: 55721, Start Num: 29

Candidate Starts for LilSmirk_64:

(Start: 29 @55461 has 30 MA's), (32, 55470), (Start: 47 @55515 has 5 MA's), (57, 55542), (60, 55569), (64, 55596), (69, 55638), (73, 55671), (75, 55680), (76, 55692),

Gene: LittleMunchkin_63 Start: 53357, Stop: 53581, Start Num: 40

Candidate Starts for LittleMunchkin_63:

(Start: 40 @53357 has 1 MA's), (61, 53456), (65, 53483), (70, 53531), (72, 53543), (78, 53570),

Gene: LizLemon_64 Start: 55590, Stop: 55850, Start Num: 29

Candidate Starts for LizLemon_64:

(Start: 29 @55590 has 30 MA's), (32, 55599), (Start: 47 @55644 has 5 MA's), (57, 55671), (60, 55698), (64, 55725), (69, 55767), (73, 55800), (75, 55809), (76, 55821),

Gene: MakoManhole_59 Start: 50530, Stop: 50700, Start Num: 52

Candidate Starts for MakoManhole_59:

(Start: 52 @50530 has 3 MA's), (72, 50662), (78, 50689),

Gene: Mariokart_58 Start: 49462, Stop: 49695, Start Num: 26

Candidate Starts for Mariokart_58:

(Start: 26 @49462 has 1 MA's), (Start: 42 @49498 has 9 MA's), (65, 49600), (72, 49660),

Gene: Marley1013_69 Start: 58226, Stop: 58441, Start Num: 39

Candidate Starts for Marley1013_69:

(9, 58082), (Start: 33 @58208 has 2 MA's), (Start: 35 @58217 has 13 MA's), (Start: 39 @58226 has 6 MA's), (Start: 56 @58277 has 1 MA's), (75, 58403),

Gene: Marlia_69 Start: 57714, Stop: 57962, Start Num: 35

Candidate Starts for Marlia_69:

(1, 57453), (2, 57471), (3, 57483), (5, 57528), (20, 57663), (24, 57675), (27, 57693), (Start: 33 @57705 has 2 MA's), (Start: 35 @57714 has 13 MA's), (Start: 39 @57723 has 6 MA's), (66, 57867), (75, 57924),

Gene: Maskar_68 Start: 57146, Stop: 57325, Start Num: 54

Candidate Starts for Maskar_68:

(18, 57023), (32, 57077), (Start: 54 @57146 has 32 MA's), (61, 57188),

Gene: MasterPo_65 Start: 55460, Stop: 55720, Start Num: 29

Candidate Starts for MasterPo_65:

(Start: 29 @55460 has 30 MA's), (32, 55469), (Start: 47 @55514 has 5 MA's), (57, 55541), (60, 55568), (64, 55595), (69, 55637), (73, 55670), (75, 55679), (76, 55691),

Gene: Melc17_65 Start: 57547, Stop: 57726, Start Num: 54

Candidate Starts for Melc17_65:

(15, 57415), (32, 57478), (Start: 54 @57547 has 32 MA's), (61, 57589),

Gene: MelsMeow_67 Start: 57199, Stop: 57378, Start Num: 54

Candidate Starts for MelsMeow_67:

(18, 57076), (32, 57130), (Start: 54 @57199 has 32 MA's), (61, 57241),

Gene: Mikota_65 Start: 56445, Stop: 56624, Start Num: 54

Candidate Starts for Mikota_65:

(18, 56322), (32, 56376), (Start: 54 @56445 has 32 MA's), (61, 56487),

Gene: MiniBoss_65 Start: 56250, Stop: 56429, Start Num: 54

Candidate Starts for MiniBoss_65:

(18, 56127), (32, 56181), (Start: 54 @56250 has 32 MA's), (61, 56292),

Gene: MmasiCarm_69 Start: 57696, Stop: 57944, Start Num: 35

Candidate Starts for MmasiCarm_69:

(1, 57435), (2, 57453), (3, 57465), (5, 57510), (20, 57645), (24, 57657), (27, 57675), (Start: 33 @57687 has 2 MA's), (Start: 35 @57696 has 13 MA's), (Start: 39 @57705 has 6 MA's), (66, 57849), (75, 57906),

Gene: Mortcellus_68 Start: 58358, Stop: 58606, Start Num: 35

Candidate Starts for Mortcellus_68:

(1, 58097), (2, 58115), (3, 58127), (5, 58172), (20, 58307), (24, 58319), (27, 58337), (Start: 33 @58349 has 2 MA's), (Start: 35 @58358 has 13 MA's), (Start: 39 @58367 has 6 MA's), (66, 58511), (75, 58568),

Gene: Mulaychimus_69 Start: 57713, Stop: 57961, Start Num: 35

Candidate Starts for Mulaychimus_69:

(1, 57452), (2, 57470), (3, 57482), (5, 57527), (20, 57662), (24, 57674), (27, 57692), (Start: 33 @57704 has 2 MA's), (Start: 35 @57713 has 13 MA's), (Start: 39 @57722 has 6 MA's), (66, 57866), (75, 57923),

Gene: Mysterious_65 Start: 58405, Stop: 58593, Start Num: 54

Candidate Starts for Mysterious_65:

(25, 58336), (30, 58345), (Start: 54 @58405 has 32 MA's), (57, 58411), (61, 58447), (66, 58489), (74, 58543),

Gene: NHagos_59 Start: 49828, Stop: 50055, Start Num: 37

Candidate Starts for NHagos_59:

(Start: 37 @49828 has 1 MA's), (38, 49831), (Start: 42 @49837 has 9 MA's), (51, 49864), (71, 49987), (72, 49996), (77, 50023),

Gene: Nathan_68 Start: 57281, Stop: 57460, Start Num: 54

Candidate Starts for Nathan_68:

(18, 57158), (32, 57212), (Start: 54 @57281 has 32 MA's), (61, 57323),

Gene: Neos5_68 Start: 57688, Stop: 57903, Start Num: 39

Candidate Starts for Neos5_68:

(9, 57544), (Start: 33 @57670 has 2 MA's), (Start: 35 @57679 has 13 MA's), (Start: 39 @57688 has 6 MA's), (Start: 56 @57739 has 1 MA's), (75, 57865),

Gene: Obutu_70 Start: 57908, Stop: 58123, Start Num: 39

Candidate Starts for Obutu_70:

(9, 57764), (Start: 33 @57890 has 2 MA's), (Start: 35 @57899 has 13 MA's), (Start: 39 @57908 has 6 MA's), (Start: 56 @57959 has 1 MA's), (75, 58085),

Gene: Olivio_68 Start: 57508, Stop: 57756, Start Num: 35

Candidate Starts for Olivio_68:

(1, 57247), (2, 57265), (3, 57277), (5, 57322), (20, 57457), (24, 57469), (27, 57487), (Start: 33 @57499 has 2 MA's), (Start: 35 @57508 has 13 MA's), (Start: 39 @57517 has 6 MA's), (66, 57661), (75, 57718),

Gene: Opia_65 Start: 55480, Stop: 55740, Start Num: 29

Candidate Starts for Opia_65:

(Start: 29 @55480 has 30 MA's), (32, 55489), (Start: 47 @55534 has 5 MA's), (57, 55561), (60, 55588), (64, 55615), (69, 55657), (73, 55690), (75, 55699), (76, 55711),

Gene: Phaedrus_63 Start: 56718, Stop: 56966, Start Num: 35

Candidate Starts for Phaedrus_63:

(1, 56457), (2, 56475), (3, 56487), (5, 56532), (20, 56667), (24, 56679), (27, 56697), (Start: 33 @56709 has 2 MA's), (Start: 35 @56718 has 13 MA's), (Start: 39 @56727 has 6 MA's), (66, 56871), (75, 56928),

Gene: Phantasmagoria_63 Start: 55526, Stop: 55732, Start Num: 47

Candidate Starts for Phantasmagoria_63:

(Start: 29 @55472 has 30 MA's), (32, 55481), (Start: 47 @55526 has 5 MA's), (57, 55553), (60, 55580), (64, 55607), (69, 55649), (73, 55682), (75, 55691), (76, 55703),

Gene: Phareon_66 Start: 56635, Stop: 56814, Start Num: 54

Candidate Starts for Phareon_66:

(18, 56512), (32, 56566), (Start: 54 @56635 has 32 MA's), (61, 56677),

Gene: Phayeta_71 Start: 57812, Stop: 58027, Start Num: 39

Candidate Starts for Phayeta_71:

(9, 57668), (Start: 33 @57794 has 2 MA's), (Start: 35 @57803 has 13 MA's), (Start: 39 @57812 has 6 MA's), (Start: 56 @57863 has 1 MA's), (75, 57989),

Gene: Pipefish_71 Start: 58442, Stop: 58660, Start Num: 35

Candidate Starts for Pipefish_71:

(6, 58295), (17, 58382), (23, 58400), (Start: 35 @58442 has 13 MA's), (Start: 39 @58451 has 6 MA's), (50, 58487), (62, 58529), (66, 58565), (75, 58622),

Gene: Potter_65 Start: 56927, Stop: 57106, Start Num: 54

Candidate Starts for Potter_65:

(18, 56804), (32, 56858), (Start: 54 @56927 has 32 MA's), (61, 56969),

Gene: PrinceCharming_65 Start: 55515, Stop: 55775, Start Num: 29

Candidate Starts for PrinceCharming_65:

(Start: 29 @55515 has 30 MA's), (32, 55524), (Start: 47 @55569 has 5 MA's), (57, 55596), (60, 55623), (64, 55650), (69, 55692), (73, 55725), (75, 55734), (76, 55746),

Gene: Qyrzula_58 Start: 55591, Stop: 55851, Start Num: 29

Candidate Starts for Qyrzula_58:

(Start: 29 @55591 has 30 MA's), (32, 55600), (Start: 47 @55645 has 5 MA's), (57, 55672), (60, 55699), (64, 55726), (69, 55768), (73, 55801), (75, 55810), (76, 55822),

Gene: RedRaider89_70 Start: 57358, Stop: 57537, Start Num: 54

Candidate Starts for RedRaider89_70:

(18, 57235), (32, 57289), (Start: 54 @57358 has 32 MA's), (61, 57400),

Gene: Rhinoforte_64 Start: 55513, Stop: 55773, Start Num: 29

Candidate Starts for Rhinoforte_64:

(Start: 29 @55513 has 30 MA's), (32, 55522), (Start: 47 @55567 has 5 MA's), (57, 55594), (60, 55621), (64, 55648), (69, 55690), (73, 55723), (75, 55732), (76, 55744),

Gene: Rosebush_63 Start: 55576, Stop: 55836, Start Num: 29

Candidate Starts for Rosebush_63:

(Start: 29 @55576 has 30 MA's), (32, 55585), (Start: 47 @55630 has 5 MA's), (57, 55657), (60, 55684), (64, 55711), (69, 55753), (73, 55786), (75, 55795), (76, 55807),

Gene: Sabella_64 Start: 55412, Stop: 55672, Start Num: 29

Candidate Starts for Sabella_64:

(Start: 29 @55412 has 30 MA's), (32, 55421), (Start: 47 @55466 has 5 MA's), (57, 55493), (60, 55520), (64, 55547), (69, 55589), (73, 55622), (75, 55631), (76, 55643),

Gene: Scrick_67 Start: 56929, Stop: 57108, Start Num: 54

Candidate Starts for Scrick_67:

(18, 56806), (32, 56860), (Start: 54 @56929 has 32 MA's), (61, 56971),

Gene: Shatter_62 Start: 50626, Stop: 50826, Start Num: 42

Candidate Starts for Shatter_62:

(Start: 26 @50590 has 1 MA's), (Start: 42 @50626 has 9 MA's), (65, 50728), (72, 50788), (78, 50815),

Gene: Sheila_64 Start: 56299, Stop: 56478, Start Num: 54

Candidate Starts for Sheila_64:

(18, 56176), (32, 56230), (Start: 54 @56299 has 32 MA's), (61, 56341),

Gene: Shenandoah_67 Start: 56910, Stop: 57158, Start Num: 35

Candidate Starts for Shenandoah_67:

(1, 56649), (2, 56667), (3, 56679), (5, 56724), (20, 56859), (24, 56871), (27, 56889), (Start: 33 @56901 has 2 MA's), (Start: 35 @56910 has 13 MA's), (Start: 39 @56919 has 6 MA's), (66, 57063), (75, 57120),

Gene: Sisko_60 Start: 50847, Stop: 51044, Start Num: 42

Candidate Starts for Sisko_60:

(Start: 42 @50847 has 9 MA's), (62, 50925), (65, 50946), (72, 51006), (78, 51033),

Gene: SlippinJimmy_71 Start: 58709, Stop: 58924, Start Num: 39

Candidate Starts for SlippinJimmy_71:

(9, 58565), (Start: 33 @58691 has 2 MA's), (Start: 35 @58700 has 13 MA's), (Start: 39 @58709 has 6 MA's), (Start: 56 @58760 has 1 MA's), (75, 58886),

Gene: Sour_62 Start: 53064, Stop: 53273, Start Num: 42

Candidate Starts for Sour_62:

(Start: 26 @53028 has 1 MA's), (Start: 42 @53064 has 9 MA's), (62, 53154), (72, 53235), (78, 53262),

Gene: SwainyDoc_69 Start: 57674, Stop: 57922, Start Num: 35

Candidate Starts for SwainyDoc_69:

(1, 57413), (2, 57431), (3, 57443), (5, 57488), (20, 57623), (24, 57635), (27, 57653), (Start: 33 @57665 has 2 MA's), (Start: 35 @57674 has 13 MA's), (Start: 39 @57683 has 6 MA's), (66, 57827), (75, 57884),

Gene: TA17A_66 Start: 55418, Stop: 55678, Start Num: 29

Candidate Starts for TA17A_66:

(Start: 29 @55418 has 30 MA's), (32, 55427), (Start: 47 @55472 has 5 MA's), (57, 55499), (60, 55526), (64, 55553), (69, 55595), (73, 55628), (75, 55637), (76, 55649),

Gene: Tinciduntolum_65 Start: 55579, Stop: 55839, Start Num: 29

Candidate Starts for Tinciduntolum_65:

(Start: 29 @55579 has 30 MA's), (32, 55588), (Start: 47 @55633 has 5 MA's), (60, 55687), (64, 55714), (69, 55756), (73, 55789), (75, 55798), (76, 55810),

Gene: TooFast2Furius_69 Start: 57172, Stop: 57351, Start Num: 54

Candidate Starts for TooFast2Furius_69:

(18, 57049), (32, 57103), (Start: 54 @57172 has 32 MA's), (61, 57214),

Gene: TraderJ_62 Start: 51541, Stop: 51786, Start Num: 46

Candidate Starts for TraderJ_62:

(4, 51304), (7, 51370), (8, 51376), (11, 51412), (12, 51424), (13, 51436), (16, 51448), (43, 51532), (46, 51541), (53, 51571), (55, 51574), (60, 51604), (65, 51643), (72, 51703), (80, 51769), (81, 51775),

Gene: Tres_64 Start: 55433, Stop: 55693, Start Num: 29

Candidate Starts for Tres_64:

(Start: 29 @55433 has 30 MA's), (32, 55442), (Start: 47 @55487 has 5 MA's), (57, 55514), (60, 55541), (64, 55568), (69, 55610), (73, 55643), (75, 55652), (76, 55664),

Gene: Tydolla_65 Start: 57176, Stop: 57418, Start Num: 28

Candidate Starts for Tydolla_65:

(10, 57080), (14, 57134), (Start: 28 @57176 has 2 MA's), (Start: 35 @57188 has 13 MA's), (62, 57290), (66, 57326), (75, 57383),

Gene: UAch1_68 Start: 57127, Stop: 57306, Start Num: 56

Candidate Starts for UAch1_68:

(21, 57034), (25, 57055), (Start: 28 @57064 has 2 MA's), (Start: 56 @57127 has 1 MA's), (60, 57154), (76, 57277),

Gene: Vic9_00063 Start: 56338, Stop: 56544, Start Num: 47

Candidate Starts for Vic9_00063:

(Start: 29 @56284 has 30 MA's), (32, 56293), (Start: 47 @56338 has 5 MA's), (57, 56365), (60, 56392), (64, 56419), (69, 56461), (73, 56494), (75, 56503), (76, 56515),

Gene: West99_64 Start: 55606, Stop: 55866, Start Num: 29

Candidate Starts for West99_64:

(Start: 29 @55606 has 30 MA's), (32, 55615), (Start: 47 @55660 has 5 MA's), (57, 55687), (60, 55714), (64, 55741), (69, 55783), (73, 55816), (75, 55825), (76, 55837),

Gene: Wooper_63 Start: 51561, Stop: 51731, Start Num: 52

Candidate Starts for Wooper_63:

(Start: 48 @51552 has 3 MA's), (Start: 52 @51561 has 3 MA's), (72, 51693), (78, 51720),

Gene: Yago84_59 Start: 50332, Stop: 50529, Start Num: 42

Candidate Starts for Yago84_59:

(Start: 42 @50332 has 9 MA's), (62, 50410), (65, 50431), (72, 50491), (78, 50518),

Gene: Yahalom_66 Start: 57095, Stop: 57343, Start Num: 35

Candidate Starts for Yahalom_66:

(1, 56834), (2, 56852), (3, 56864), (5, 56909), (20, 57044), (24, 57056), (27, 57074), (Start: 33 @57086 has 2 MA's), (Start: 35 @57095 has 13 MA's), (Start: 39 @57104 has 6 MA's), (66, 57248), (75, 57305),

Gene: Yeshua_62 Start: 51529, Stop: 51708, Start Num: 48

Candidate Starts for Yeshua_62:

(Start: 48 @51529 has 3 MA's), (Start: 52 @51538 has 3 MA's), (72, 51670), (78, 51697),