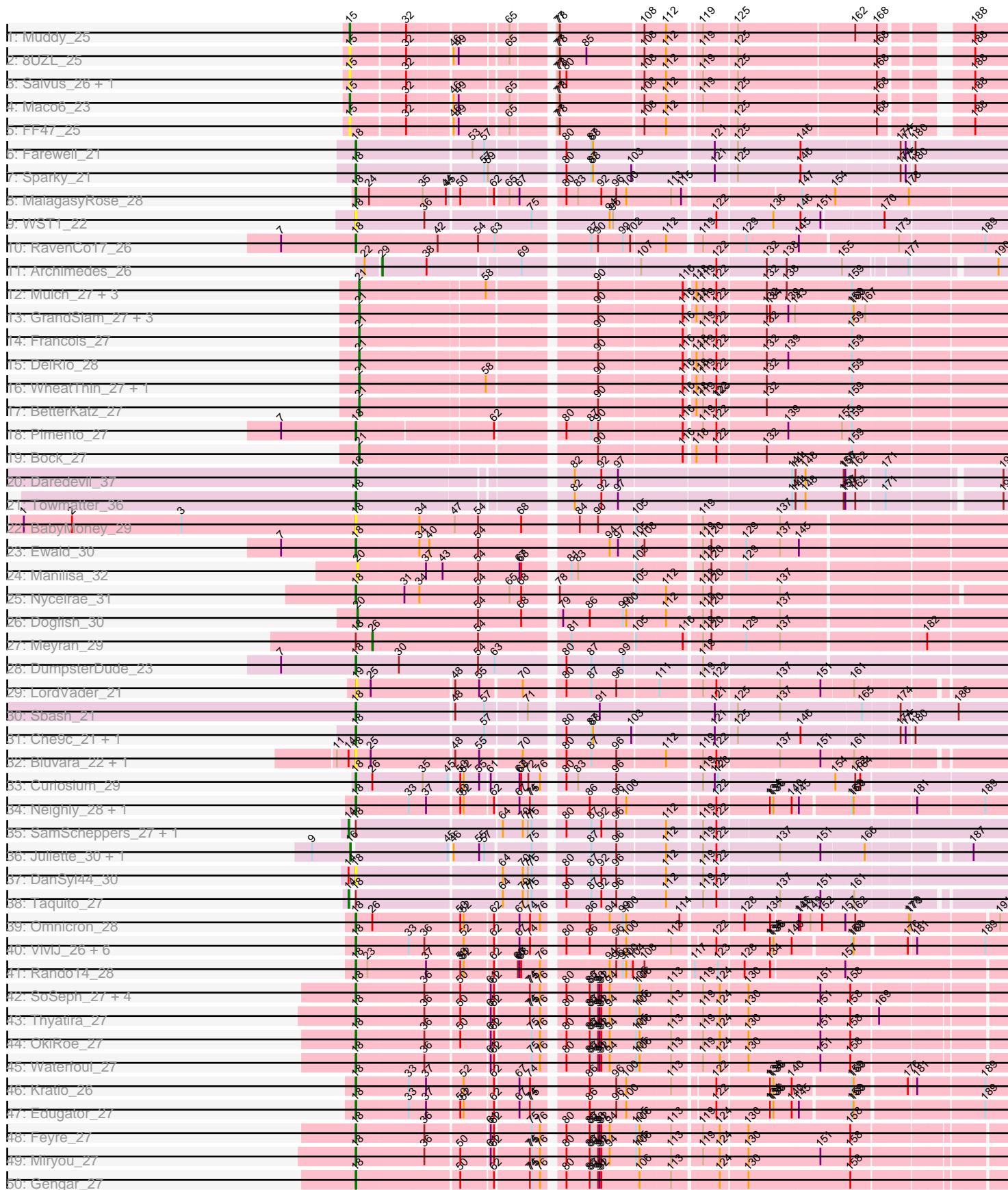


Pham 304754



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 304754 Report

This analysis was run 06/08/26 on database version 649.

Pham number 304754 has 167 members, 26 are drafts.

Phages represented in each track:

- Track 1 : Muddy_25
- Track 2 : 8UZL_25
- Track 3 : Salvus_26, LongHai_26
- Track 4 : Maco6_23
- Track 5 : FF47_25
- Track 6 : Farewell_21
- Track 7 : Sparky_21
- Track 8 : MalagasyRose_28
- Track 9 : WST1_22
- Track 10 : RavenCo17_26
- Track 11 : Archimedes_26
- Track 12 : Mulch_27, Parada_27, NancyRae_27, Brylie_27
- Track 13 : GrandSlam_27, Chop_27, Ayotoya_27, Hamood_27
- Track 14 : Francois_27
- Track 15 : DelRio_28
- Track 16 : WheatThin_27, Nadeem_27
- Track 17 : BetterKatz_27
- Track 18 : Pimento_27
- Track 19 : Bock_27
- Track 20 : Daredevil_37
- Track 21 : Towmatter_36
- Track 22 : BabyMoney_29
- Track 23 : Ewald_30
- Track 24 : Manilisa_32
- Track 25 : Nyceirae_31
- Track 26 : Dogfish_30
- Track 27 : Meyran_29
- Track 28 : DumpsterDude_23
- Track 29 : LordVader_21
- Track 30 : Sbash_21
- Track 31 : Che9c_21, Purky_22
- Track 32 : Bluvara_22, Okabe_21
- Track 33 : Curiosium_29
- Track 34 : Neighly_28, Larva_28
- Track 35 : SamScheppers_27, Eponine_29
- Track 36 : Juliette_30, Ruthiejr_29
- Track 37 : DanSyl44_30

- Track 38 : Taquito_27
- Track 39 : Omnicron_28
- Track 40 : ViviJ_26, LilDirt_26, Collard_27, BananenDer11_27, DoubleChamp_27, InvictusManeo_27, Agent47_27
- Track 41 : Rando14_28
- Track 42 : SoSeph_27, Heftyboy_27, Paola_27, Guillsminger_27, Leston_27
- Track 43 : Thyatira_27
- Track 44 : OkiRoe_27
- Track 45 : Waterfoul_27
- Track 46 : Kratio_26
- Track 47 : Edugator_27
- Track 48 : Feyre_27
- Track 49 : Miryou_27
- Track 50 : Gengar_27
- Track 51 : Bricole_31, TpudiCK_32, IPhane7_31, Bongo_31, FreakyGoo_32, TyDawg_31, PegLeg_31, LilhomieP_30
- Track 52 : Dulcita_32, Izel_32, Auspice_31, SlimJimmy_30, Diminimus_32, Glaske16_32, KleverKiS_31
- Track 53 : Skinny_32
- Track 54 : Reindeer_30
- Track 55 : Rubeelu_22, Butters_22
- Track 56 : Panchino_21, SkinnyPete_21
- Track 57 : Phrann_21
- Track 58 : Raymond7_21
- Track 59 : Andies_21, Willsammy_22, Scitech_21, Dynamo_22
- Track 60 : Kevin1_22
- Track 61 : MichelleMyBell_22
- Track 62 : Impisi_22
- Track 63 : Xeno_21
- Track 64 : Rebel_21
- Track 65 : BronnyJr_22
- Track 66 : Sonah_22, Bartholomew_22, Venti_22, Polkaroo_22, Bhagsy_22, Brusacoram_22, HUHilltop_22, Fishburne_22, Mangethe_22, Necropolis_22, Majeke_22, Babsiella_22, StevieRay_22, Bunnies_22, Vidya_22, FirstPlacePfu_22, Jebeks_22, Etoile_22, Donovan_22, Ksquared_22, Thespis_22, HC_22, Zilizabeth_22, Kari_22, Phegasus_22, Arib1_22, Juniormint_22, GaloreK_22, Techage_22
- Track 67 : StressBall_22, Glaske_22, Gavriela_22, KilKor_22, Phalm_22, Shweta_21, Megiddo_22, CactusJack_22
- Track 68 : Atcoo_22
- Track 69 : Phineas_22
- Track 70 : Jung_22
- Track 71 : Chubbello_22
- Track 72 : Camster_22
- Track 73 : Langerak_22, Malithi_22
- Track 74 : PeanutPie_22
- Track 75 : Tortellini_22
- Track 76 : Xavia_22
- Track 77 : Nazo_22, BigNuz_22
- Track 78 : Phayonce_22, ThulaThula_22
- Track 79 : Demikore_38, Labelle_37, Madruga_36, SuperSonics_37, Patience_38
- Track 80 : AuntGwenStacy_28, Faiyaz_28, Typha_28, Hilltopfarm_28
- Track 81 : Cracklewink_28

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

The start number called the most often in the published annotations is 18, it was called in 98 of the 141 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agent47_27, Andies_21, Arib1_22, Atcoo_22, AuntGwenStacy_28, Auspice_31, Babsiella_22, BabyMoney_29, BananenDer11_27, Bartholomew_22, Bhagsy_22, BigNuz_22, Bluvara_22, Bongo_31, Bricole_31, BronnyJr_22, Brusacoram_22, Bunnies_22, Camster_22, Che9c_21, Chubbello_22, Collard_27, Cracklewink_28, Curiosium_29, DanSyl44_30, Daredevil_37, Diminimus_32, Donovan_22, DoubleChamp_27, Dulcita_32, DumpsterDude_23, Dynamo_22, Edugator_27, Etoile_22, Ewald_30, Faiyaz_28, Farewell_21, Feyre_27, FirstPlacePfu_22, Fishburne_22, FreakyGoo_32, GaloreK_22, Gengar_27, Glaske16_32, Guillsminger_27, HC_22, HUHilltop_22, Heftyboy_27, Hilltopfarm_28, IPhane7_31, InvictusManeo_27, Izel_32, Jebeks_22, Jung_22, Juniormint_22, Kari_22, KleverKiS_31, Kratio_26, Ksquared_22, Larva_28, Leston_27, LilDirt_26, LilhomieP_30, Majeke_22, MalagasyRose_28, Mangethe_22, MichelleMyBell_22, Miryou_27, Nazo_22, Necropolis_22, Neighly_28, Nyceirae_31, Okabe_21, OkiRoe_27, Omnicron_28, Panchino_21, Paola_27, PegLeg_31, Phayonce_22, Phegasus_22, Phineas_22, Pimento_27, Polkaroo_22, Purky_22, Rando14_28, RavenCo17_26, Raymond7_21, Reindeer_30, Sbash_21, Scitech_21, SkinnyPete_21, Skinny_32, SlimJimmy_30, SoSeph_27, Sonah_22, Sparky_21, StevieRay_22, Techage_22, Thespis_22, ThulaThula_22, Thyatira_27, Tortellini_22, Towmatter_36, TpudiCK_32, TyDawg_31, Typha_28, Venti_22, Vidya_22, ViviJ_26, WST1_22, Waterfoul_27, Willsammy_22, Xavia_22, Zilizebeth_22,

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

- Eponine_29, Langerak_22, Malithi_22, Meyran_29, PeanutPie_22, Phrann_21, SamScheppers_27, Taquito_27,

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

- 8UZL_25, Archimedes_26, Ayotoya_27, BetterKatz_27, Bock_27, Brylie_27, Butters_22, CactusJack_22, Chop_27, DelRio_28, Demikore_38, Dogfish_30, FF47_25, Francois_27, Gavriela_22, Glaske_22, GrandSlam_27, Hamood_27, Impisi_22, Juliette_30, Kevin1_22, KilKor_22, Labelle_37, LongHai_26, LordVader_21, Maco6_23, Madrugua_36, Manilisa_32, Megiddo_22, Muddy_25, Mulch_27, Nadeem_27, NancyRae_27, Parada_27, Patience_38, Phalm_22, Rebel_21, Rubeelu_22, Ruthiejr_29, Salvus_26, Shweta_21, StressBall_22, SuperSonics_37, WheatThin_27, Xeno_21,

Summary by start number:

Start 13:

- Found in 9 of 167 (5.4%) of genes in pham
- Manual Annotations of this start: 9 of 141
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CactusJack_22 (P1), Gavriela_22 (P1), Glaske_22 (P1), KilKor_22 (P1), Megiddo_22 (P1), Phalm_22 (P1), Shweta_21 (N),

StressBall_22 (P1), Xeno_21 (N),

Start 14:

- Found in 43 of 167 (25.7%) of genes in pham
- Manual Annotations of this start: 6 of 141
- Called 14.0% of time when present
- Phage (with cluster) where this start called: Eponine_29 (K4), Langerak_22 (P1), Malithi_22 (P1), Phrann_21 (N), SamScheppers_27 (K4), Taquito_27 (K4),

Start 15:

- Found in 6 of 167 (3.6%) of genes in pham
- Manual Annotations of this start: 2 of 141
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 8UZL_25 (AB), FF47_25 (AB), LongHai_26 (AB), Maco6_23 (AB), Muddy_25 (AB), Salvus_26 (AB),

Start 16:

- Found in 5 of 167 (3.0%) of genes in pham
- Manual Annotations of this start: 5 of 141
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Butters_22 (N), Juliette_30 (K4), Kevin1_22 (N), Rubeelu_22 (N), Ruthiejr_29 (K4),

Start 17:

- Found in 1 of 167 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Impisi_22 (N),

Start 18:

- Found in 122 of 167 (73.1%) of genes in pham
- Manual Annotations of this start: 98 of 141
- Called 93.4% of time when present
- Phage (with cluster) where this start called: Agent47_27 (K5), Andies_21 (N), Arib1_22 (P1), Atcoo_22 (P1), AuntGwenStacy_28 (Y), Auspice_31 (M1), Babsiella_22 (I1), BabyMoney_29 (DT), BananenDer11_27 (K5), Bartholomew_22 (P1), Bhagsy_22 (P1), BigNuz_22 (P4), Bluvara_22 (I3), Bongo_31 (M1), Bricole_31 (M1), BronnyJr_22 (P1), Brusacoram_22 (P1), Bunnies_22 (P1), Camster_22 (P1), Che9c_21 (I2), Chubbello_22 (P1), Collard_27 (K5), Cracklewink_28 (Y), Curiosium_29 (K1), DanSyl44_30 (K4), Daredevil_37 (DL), Diminimus_32 (M1), Donovan_22 (P1), DoubleChamp_27 (K5), Dulcita_32 (M1), DumpsterDude_23 (DW), Dynamo_22 (P1), Edugator_27 (K5), Etoile_22 (P1), Ewald_30 (DT), Faiyaz_28 (Y), Farewell_21 (AF), Feyre_27 (K5), FirstPlacePfu_22 (P1), Fishburne_22 (P1), FreakyGoo_32 (M1), GaloreK_22 (P1), Gengar_27 (K5), Glaske16_32 (M1), Guillsminger_27 (K5), HC_22 (I1), HUHilltop_22 (P1), Heftyboy_27 (K5), Hilltopfarm_28 (Y), IPhone7_31 (M1), InvictusManeo_27 (K5), Izel_32 (M1), Jebeks_22 (P1), Jung_22 (P1), Juniormint_22 (P1), Kari_22 (P1), KleverKiS_31 (M1), Kratio_26 (K5), Ksquared_22 (P1), Larva_28 (K5), Leston_27 (K5), LilDirt_26 (K5), LilhomieP_30 (M1), Majeke_22 (P1), MalagasyRose_28 (AG), Mangethe_22 (P1), MichelleMyBell_22 (N), Miryou_27 (K5), Nazo_22 (P4), Necropolis_22 (P1), Neighly_28 (K3), Nyceirae_31 (DT), Okabe_21 (F8), OkiRoe_27 (K5), Omnicron_28 (K5), Panchino_21 (N), Paola_27 (K5), PegLeg_31 (M1), Phayonce_22 (P5), Phegasus_22 (P1), Phineas_22 (P1), Pimento_27 (DI), Polkaroo_22 (P1), Purky_22

(P6), Rando14_28 (K5), RavenCo17_26 (CZ8), Raymond7_21 (N), Reindeer_30 (M1), Sbash_21 (I2), Scitech_21 (N), SkinnyPete_21 (N), Skinny_32 (M1), SlimJimmy_30 (M1), SoSeph_27 (K5), Sonah_22 (P1), Sparky_21 (AF), StevieRay_22 (P1), Techage_22 (P1), Thespis_22 (P1), ThulaThula_22 (P5), Thyatira_27 (K5), Tortellini_22 (P2), Towmatter_36 (DL), TpudiCK_32 (M1), TyDawg_31 (M1), Typha_28 (Y), Venti_22 (P1), Vidya_22 (P1), ViviJ_26 (K5), WST1_22 (AJ), Waterfoul_27 (K5), Willsammy_22 (P1), Xavia_22 (P3), Zilizebeth_22 (P1),

Start 19:

- Found in 2 of 167 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 141
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LordVader_21 (F), Rebel_21 (N),

Start 20:

- Found in 2 of 167 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 141
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dogfish_30 (DT), Manilisa_32 (DT),

Start 21:

- Found in 19 of 167 (11.4%) of genes in pham
- Manual Annotations of this start: 17 of 141
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ayotoya_27 (DI), BetterKatz_27 (DI), Bock_27 (DI), Brylie_27 (DI), Chop_27 (DI), DelRio_28 (DI), Demikore_38 (U), Francois_27 (DI), GrandSlam_27 (DI), Hamood_27 (DI), Labelle_37 (U), Madruga_36 (U), Mulch_27 (DI), Nadeem_27 (DI), NancyRae_27 (DI), Parada_27 (DI), Patience_38 (U), SuperSonics_37 (U), WheatThin_27 (DI),

Start 25:

- Found in 38 of 167 (22.8%) of genes in pham
- No Manual Annotations of this start.
- Called 2.6% of time when present
- Phage (with cluster) where this start called: PeanutPie_22 (P1),

Start 26:

- Found in 3 of 167 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 141
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Meyran_29 (DT),

Start 29:

- Found in 1 of 167 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 141
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archimedes_26 (DA),

Summary by clusters:

There are 29 clusters represented in this pham: DL, DI, CZ8, DA, K3, K1, P1, M1, K5, K4, DW, DT, F, AG, I1, I3, I2, P2, P3, AB, P6, P4, P5, AJ, N, U, Y, AF, F8,

Info for manual annotations of cluster AB:

- Start number 15 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster AF:

- Start number 18 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AG:

- Start number 18 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster CZ8:

- Start number 18 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DA:

- Start number 29 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster DI:

- Start number 18 was manually annotated 1 time for cluster DI.
- Start number 21 was manually annotated 14 times for cluster DI.

Info for manual annotations of cluster DL:

- Start number 18 was manually annotated 2 times for cluster DL.

Info for manual annotations of cluster DT:

- Start number 18 was manually annotated 2 times for cluster DT.
- Start number 20 was manually annotated 1 time for cluster DT.
- Start number 26 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster DW:

- Start number 18 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster I1:

- Start number 18 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster I2:

- Start number 18 was manually annotated 2 times for cluster I2.

Info for manual annotations of cluster K1:

- Start number 18 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K4:

- Start number 14 was manually annotated 3 times for cluster K4.
- Start number 16 was manually annotated 2 times for cluster K4.

Info for manual annotations of cluster K5:

- Start number 18 was manually annotated 22 times for cluster K5.

Info for manual annotations of cluster M1:

- Start number 18 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster N:

- Start number 13 was manually annotated 2 times for cluster N.
- Start number 14 was manually annotated 1 time for cluster N.
- Start number 16 was manually annotated 3 times for cluster N.
- Start number 18 was manually annotated 5 times for cluster N.
- Start number 19 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster P1:

- Start number 13 was manually annotated 7 times for cluster P1.
- Start number 14 was manually annotated 2 times for cluster P1.
- Start number 18 was manually annotated 30 times for cluster P1.

Info for manual annotations of cluster P2:

- Start number 18 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:

- Start number 18 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:

- Start number 18 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:

- Start number 18 was manually annotated 2 times for cluster P5.

Info for manual annotations of cluster P6:

- Start number 18 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster U:

- Start number 21 was manually annotated 3 times for cluster U.

Info for manual annotations of cluster Y:

- Start number 18 was manually annotated 4 times for cluster Y.

Gene Information:

Gene: 8UZL_25 Start: 21727, Stop: 22752, Start Num: 15

Candidate Starts for 8UZL_25:

(Start: 15 @21727 has 2 MA's), (32, 21817), (46, 21886), (49, 21895), (65, 21973), (77, 22036), (78, 22039), (85, 22087), (108, 22183), (112, 22219), (119, 22270), (125, 22327), (168, 22564), (188, 22690),

Gene: Agent47_27 Start: 24079, Stop: 25143, Start Num: 18

Candidate Starts for Agent47_27:

(Start: 18 @24079 has 98 MA's), (33, 24169), (36, 24196), (52, 24259), (62, 24307), (67, 24346), (74, 24364), (80, 24409), (86, 24448), (96, 24496), (100, 24514), (113, 24589), (122, 24655), (134, 24745), (135, 24748), (136, 24751), (140, 24784), (159, 24883), (160, 24886), (176, 24970), (181, 24982), (189, 25099),

Gene: Andies_21 Start: 20194, Stop: 21228, Start Num: 18

Candidate Starts for Andies_21:

(Start: 18 @20194 has 98 MA's), (45, 20350), (48, 20356), (68, 20464), (70, 20467), (75, 20482), (87, 20569), (96, 20614), (112, 20695), (119, 20752), (122, 20776), (137, 20881), (151, 20953), (161, 20998),

Gene: Archimedes_26 Start: 23367, Stop: 24368, Start Num: 29

Candidate Starts for Archimedes_26:

(22, 23343), (Start: 29 @23367 has 1 MA's), (38, 23445), (69, 23595), (107, 23766), (122, 23898), (132, 23982), (138, 24018), (155, 24114), (177, 24213), (190, 24348),

Gene: Arib1_22 Start: 21305, Stop: 22342, Start Num: 18

Candidate Starts for Arib1_22:

(11, 21281), (Start: 14 @21302 has 6 MA's), (Start: 18 @21305 has 98 MA's), (25, 21329), (48, 21467), (55, 21509), (70, 21578), (80, 21638), (87, 21683), (96, 21728), (112, 21809), (119, 21866), (122, 21890), (137, 21995), (151, 22067), (161, 22112), (187, 22277),

Gene: Atcoo_22 Start: 21759, Stop: 22826, Start Num: 18

Candidate Starts for Atcoo_22:

(Start: 18 @21759 has 98 MA's), (48, 21921), (55, 21963), (70, 22032), (80, 22092), (87, 22137), (96, 22182), (119, 22320), (122, 22344),

Gene: AuntGwenStacy_28 Start: 26025, Stop: 27062, Start Num: 18

Candidate Starts for AuntGwenStacy_28:

(Start: 18 @26025 has 98 MA's), (39, 26148), (52, 26202), (57, 26238), (71, 26301), (80, 26349), (90, 26403), (91, 26406), (121, 26592), (125, 26628), (131, 26670), (136, 26688), (147, 26739),

Gene: Auspice_31 Start: 26992, Stop: 28047, Start Num: 18

Candidate Starts for Auspice_31:

(Start: 18 @26992 has 98 MA's), (57, 27205), (65, 27241), (77, 27304), (91, 27376), (96, 27406), (101, 27427), (109, 27463), (113, 27499), (119, 27547), (121, 27568), (123, 27574), (125, 27604), (126, 27607), (133, 27655), (174, 27865), (184, 27919),

Gene: Ayotoya_27 Start: 24101, Stop: 25168, Start Num: 21

Candidate Starts for Ayotoya_27:

(Start: 21 @24101 has 17 MA's), (90, 24479), (116, 24620), (118, 24635), (119, 24647), (122, 24671), (132, 24755), (134, 24761), (139, 24794), (143, 24806), (159, 24902), (160, 24905), (167, 24926),

Gene: Babsiella_22 Start: 21313, Stop: 22350, Start Num: 18

Candidate Starts for Babsiella_22:

(11, 21289), (Start: 14 @21310 has 6 MA's), (Start: 18 @21313 has 98 MA's), (25, 21337), (48, 21475), (55, 21517), (70, 21586), (80, 21646), (87, 21691), (96, 21736), (112, 21817), (119, 21874), (122, 21898), (137, 22003), (151, 22075), (161, 22120), (187, 22285),

Gene: BabyMoney_29 Start: 25948, Stop: 27033, Start Num: 18

Candidate Starts for BabyMoney_29:

(1, 25351), (2, 25438), (3, 25636), (Start: 18 @25948 has 98 MA's), (34, 26053), (47, 26116), (54, 26158), (68, 26236), (84, 26320), (90, 26350), (105, 26413), (119, 26521), (137, 26653),

Gene: BananenDer11_27 Start: 24040, Stop: 25104, Start Num: 18

Candidate Starts for BananenDer11_27:

(Start: 18 @24040 has 98 MA's), (33, 24130), (36, 24157), (52, 24220), (62, 24268), (67, 24307), (74, 24325), (80, 24370), (86, 24409), (96, 24457), (100, 24475), (113, 24550), (122, 24616), (134, 24706), (135, 24709), (136, 24712), (140, 24745), (159, 24844), (160, 24847), (176, 24931), (181, 24943),

(189, 25060),

Gene: Bartholomew_22 Start: 21299, Stop: 22336, Start Num: 18

Candidate Starts for Bartholomew_22:

(11, 21275), (Start: 14 @21296 has 6 MA's), (Start: 18 @21299 has 98 MA's), (25, 21323), (48, 21461), (55, 21503), (70, 21572), (80, 21632), (87, 21677), (96, 21722), (112, 21803), (119, 21860), (122, 21884), (137, 21989), (151, 22061), (161, 22106), (187, 22271),

Gene: BetterKatz_27 Start: 23574, Stop: 24641, Start Num: 21

Candidate Starts for BetterKatz_27:

(Start: 21 @23574 has 17 MA's), (90, 23952), (116, 24093), (118, 24108), (119, 24120), (122, 24144), (123, 24147), (132, 24228), (159, 24375),

Gene: Bhagsy_22 Start: 21306, Stop: 22343, Start Num: 18

Candidate Starts for Bhagsy_22:

(11, 21282), (Start: 14 @21303 has 6 MA's), (Start: 18 @21306 has 98 MA's), (25, 21330), (48, 21468), (55, 21510), (70, 21579), (80, 21639), (87, 21684), (96, 21729), (112, 21810), (119, 21867), (122, 21891), (137, 21996), (151, 22068), (161, 22113), (187, 22278),

Gene: BigNuz_22 Start: 21497, Stop: 22546, Start Num: 18

Candidate Starts for BigNuz_22:

(Start: 18 @21497 has 98 MA's), (24, 21518), (48, 21659), (53, 21689), (57, 21710), (71, 21773), (78, 21812), (110, 21971), (125, 22103), (142, 22199), (188, 22484),

Gene: Bluvara_22 Start: 21380, Stop: 22417, Start Num: 18

Candidate Starts for Bluvara_22:

(11, 21356), (Start: 14 @21377 has 6 MA's), (Start: 18 @21380 has 98 MA's), (25, 21404), (48, 21542), (55, 21584), (70, 21653), (80, 21713), (87, 21758), (96, 21803), (112, 21884), (119, 21941), (122, 21965), (137, 22070), (151, 22142), (161, 22187),

Gene: Bock_27 Start: 23324, Stop: 24391, Start Num: 21

Candidate Starts for Bock_27:

(Start: 21 @23324 has 17 MA's), (90, 23702), (116, 23843), (118, 23858), (122, 23894), (132, 23978), (159, 24125),

Gene: Bongo_31 Start: 26992, Stop: 28047, Start Num: 18

Candidate Starts for Bongo_31:

(Start: 18 @26992 has 98 MA's), (57, 27205), (65, 27241), (77, 27304), (91, 27376), (96, 27406), (101, 27427), (109, 27463), (113, 27499), (119, 27547), (121, 27568), (123, 27574), (125, 27604), (126, 27607), (133, 27655), (172, 27844), (174, 27865), (184, 27919),

Gene: Bricole_31 Start: 26978, Stop: 28033, Start Num: 18

Candidate Starts for Bricole_31:

(Start: 18 @26978 has 98 MA's), (57, 27191), (65, 27227), (77, 27290), (91, 27362), (96, 27392), (101, 27413), (109, 27449), (113, 27485), (119, 27533), (121, 27554), (123, 27560), (125, 27590), (126, 27593), (133, 27641), (172, 27830), (174, 27851), (184, 27905),

Gene: BronnyJr_22 Start: 21730, Stop: 22797, Start Num: 18

Candidate Starts for BronnyJr_22:

(Start: 14 @21727 has 6 MA's), (Start: 18 @21730 has 98 MA's), (48, 21892), (55, 21934), (70, 22003), (80, 22063), (87, 22108), (96, 22153), (111, 22222), (112, 22234), (119, 22291), (122, 22315), (146, 22453), (147, 22456),

Gene: Brusacoram_22 Start: 21299, Stop: 22336, Start Num: 18

Candidate Starts for Brusacoram_22:

(11, 21275), (Start: 14 @21296 has 6 MA's), (Start: 18 @21299 has 98 MA's), (25, 21323), (48, 21461), (55, 21503), (70, 21572), (80, 21632), (87, 21677), (96, 21722), (112, 21803), (119, 21860), (122, 21884), (137, 21989), (151, 22061), (161, 22106), (187, 22271),

Gene: Brylie_27 Start: 23315, Stop: 24382, Start Num: 21

Candidate Starts for Brylie_27:

(Start: 21 @23315 has 17 MA's), (58, 23525), (90, 23693), (116, 23834), (118, 23849), (119, 23861), (122, 23885), (132, 23969), (138, 24005), (159, 24116),

Gene: Bunnies_22 Start: 21321, Stop: 22358, Start Num: 18

Candidate Starts for Bunnies_22:

(11, 21297), (Start: 14 @21318 has 6 MA's), (Start: 18 @21321 has 98 MA's), (25, 21345), (48, 21483), (55, 21525), (70, 21594), (80, 21654), (87, 21699), (96, 21744), (112, 21825), (119, 21882), (122, 21906), (137, 22011), (151, 22083), (161, 22128), (187, 22293),

Gene: Butters_22 Start: 19998, Stop: 21038, Start Num: 16

Candidate Starts for Butters_22:

(9, 19932), (Start: 16 @19998 has 5 MA's), (45, 20157), (48, 20163), (68, 20271), (70, 20274), (75, 20289), (87, 20379), (96, 20424), (112, 20505), (119, 20562), (122, 20586), (134, 20673), (137, 20691), (151, 20763), (161, 20808), (187, 20973),

Gene: CactusJack_22 Start: 21561, Stop: 22601, Start Num: 13

Candidate Starts for CactusJack_22:

(Start: 13 @21561 has 9 MA's), (45, 21720), (48, 21726), (55, 21768), (68, 21834), (70, 21837), (80, 21897), (87, 21942), (96, 21987), (112, 22068), (119, 22125), (122, 22149), (137, 22254), (151, 22326), (161, 22371),

Gene: Camster_22 Start: 21300, Stop: 22367, Start Num: 18

Candidate Starts for Camster_22:

(11, 21276), (Start: 14 @21297 has 6 MA's), (Start: 18 @21300 has 98 MA's), (25, 21324), (48, 21462), (55, 21504), (70, 21573), (80, 21633), (87, 21678), (96, 21723), (111, 21792), (112, 21804), (119, 21861), (122, 21885), (150, 22056),

Gene: Che9c_21 Start: 21007, Stop: 22053, Start Num: 18

Candidate Starts for Che9c_21:

(Start: 18 @21007 has 98 MA's), (57, 21220), (80, 21331), (87, 21373), (88, 21376), (103, 21445), (121, 21577), (125, 21613), (146, 21721), (174, 21874), (175, 21883), (180, 21895),

Gene: Chop_27 Start: 23849, Stop: 24916, Start Num: 21

Candidate Starts for Chop_27:

(Start: 21 @23849 has 17 MA's), (90, 24227), (116, 24368), (118, 24383), (119, 24395), (122, 24419), (132, 24503), (134, 24509), (139, 24542), (143, 24554), (159, 24650), (160, 24653), (167, 24674),

Gene: Chubbello_22 Start: 21298, Stop: 22335, Start Num: 18

Candidate Starts for Chubbello_22:

(11, 21274), (Start: 14 @21295 has 6 MA's), (Start: 18 @21298 has 98 MA's), (25, 21322), (48, 21460), (55, 21502), (70, 21571), (80, 21631), (87, 21676), (96, 21721), (112, 21802), (119, 21859), (122, 21883), (134, 21970), (137, 21988), (151, 22060), (161, 22105), (187, 22270),

Gene: Collard_27 Start: 24040, Stop: 25104, Start Num: 18

Candidate Starts for Collard_27:

(Start: 18 @24040 has 98 MA's), (33, 24130), (36, 24157), (52, 24220), (62, 24268), (67, 24307), (74, 24325), (80, 24370), (86, 24409), (96, 24457), (100, 24475), (113, 24550), (122, 24616), (134, 24706), (135, 24709), (136, 24712), (140, 24745), (159, 24844), (160, 24847), (176, 24931), (181, 24943), (189, 25060),

Gene: Cracklewink_28 Start: 26155, Stop: 27216, Start Num: 18

Candidate Starts for Cracklewink_28:

(Start: 18 @26155 has 98 MA's), (41, 26293), (46, 26314), (48, 26317), (56, 26365), (57, 26368), (73, 26443), (80, 26488), (87, 26530), (88, 26533), (93, 26551), (96, 26575), (99, 26587), (101, 26596), (103, 26602), (122, 26734), (134, 26824), (147, 26881), (157, 26956), (173, 27037), (191, 27199),

Gene: Curiosium_29 Start: 23069, Stop: 24148, Start Num: 18

Candidate Starts for Curiosium_29:

(Start: 18 @23069 has 98 MA's), (Start: 26 @23096 has 1 MA's), (35, 23183), (45, 23228), (50, 23243), (52, 23249), (55, 23276), (61, 23291), (67, 23336), (68, 23339), (72, 23351), (76, 23372), (80, 23399), (83, 23420), (96, 23486), (119, 23630), (121, 23651), (123, 23657), (154, 23855), (162, 23888), (164, 23897),

Gene: DanSyl44_30 Start: 25030, Stop: 26100, Start Num: 18

Candidate Starts for DanSyl44_30:

(Start: 14 @25027 has 6 MA's), (Start: 18 @25030 has 98 MA's), (64, 25270), (70, 25306), (71, 25315), (75, 25321), (80, 25366), (87, 25411), (92, 25429), (96, 25456), (112, 25537), (119, 25594), (122, 25618),

Gene: Daredevil_37 Start: 34603, Stop: 35670, Start Num: 18

Candidate Starts for Daredevil_37:

(Start: 18 @34603 has 98 MA's), (82, 34948), (92, 34993), (97, 35023), (141, 35314), (144, 35320), (148, 35338), (156, 35404), (157, 35407), (162, 35425), (171, 35473), (192, 35659),

Gene: DelRio_28 Start: 24323, Stop: 25387, Start Num: 21

Candidate Starts for DelRio_28:

(Start: 21 @24323 has 17 MA's), (90, 24701), (116, 24842), (118, 24854), (119, 24866), (122, 24890), (132, 24974), (139, 25013), (159, 25121),

Gene: Demikore_38 Start: 32041, Stop: 33081, Start Num: 21

Candidate Starts for Demikore_38:

(Start: 21 @32041 has 17 MA's), (32, 32119), (46, 32197), (89, 32410), (90, 32416), (108, 32494), (119, 32587), (123, 32614),

Gene: Diminimus_32 Start: 26991, Stop: 28046, Start Num: 18

Candidate Starts for Diminimus_32:

(Start: 18 @26991 has 98 MA's), (57, 27204), (65, 27240), (77, 27303), (91, 27375), (96, 27405), (101, 27426), (109, 27462), (113, 27498), (119, 27546), (121, 27567), (123, 27573), (125, 27603), (126, 27606), (133, 27654), (174, 27864), (184, 27918),

Gene: Dogfish_30 Start: 26617, Stop: 27699, Start Num: 20

Candidate Starts for Dogfish_30:

(Start: 20 @26617 has 1 MA's), (54, 26827), (68, 26905), (79, 26959), (86, 27004), (99, 27061), (100, 27067), (112, 27130), (119, 27187), (120, 27202), (137, 27319),

Gene: Donovan_22 Start: 21288, Stop: 22325, Start Num: 18

Candidate Starts for Donovan_22:

(11, 21264), (Start: 14 @21285 has 6 MA's), (Start: 18 @21288 has 98 MA's), (25, 21312), (48, 21450), (55, 21492), (70, 21561), (80, 21621), (87, 21666), (96, 21711), (112, 21792), (119, 21849), (122, 21873), (137, 21978), (151, 22050), (161, 22095), (187, 22260),

Gene: DoubleChamp_27 Start: 24040, Stop: 25104, Start Num: 18

Candidate Starts for DoubleChamp_27:

(Start: 18 @24040 has 98 MA's), (33, 24130), (36, 24157), (52, 24220), (62, 24268), (67, 24307), (74, 24325), (80, 24370), (86, 24409), (96, 24457), (100, 24475), (113, 24550), (122, 24616), (134, 24706), (135, 24709), (136, 24712), (140, 24745), (159, 24844), (160, 24847), (176, 24931), (181, 24943), (189, 25060),

Gene: Dulcita_32 Start: 26991, Stop: 28046, Start Num: 18

Candidate Starts for Dulcita_32:

(Start: 18 @26991 has 98 MA's), (57, 27204), (65, 27240), (77, 27303), (91, 27375), (96, 27405), (101, 27426), (109, 27462), (113, 27498), (119, 27546), (121, 27567), (123, 27573), (125, 27603), (126, 27606), (133, 27654), (174, 27864), (184, 27918),

Gene: DumpsterDude_23 Start: 21990, Stop: 23072, Start Num: 18

Candidate Starts for DumpsterDude_23:

(7, 21855), (Start: 18 @21990 has 98 MA's), (30, 22062), (54, 22200), (63, 22230), (80, 22338), (87, 22380), (99, 22434), (119, 22560),

Gene: Dynamo_22 Start: 21688, Stop: 22722, Start Num: 18

Candidate Starts for Dynamo_22:

(Start: 18 @21688 has 98 MA's), (45, 21844), (48, 21850), (68, 21958), (70, 21961), (75, 21976), (87, 22063), (96, 22108), (112, 22189), (119, 22246), (122, 22270), (137, 22375), (151, 22447), (161, 22492),

Gene: Edugator_27 Start: 24010, Stop: 25074, Start Num: 18

Candidate Starts for Edugator_27:

(Start: 18 @24010 has 98 MA's), (33, 24100), (37, 24130), (50, 24184), (52, 24190), (62, 24238), (67, 24277), (74, 24295), (75, 24298), (86, 24379), (96, 24427), (100, 24445), (122, 24586), (134, 24676), (135, 24679), (136, 24682), (140, 24715), (145, 24727), (159, 24814), (160, 24817), (189, 25030),

Gene: Eponine_29 Start: 24914, Stop: 25987, Start Num: 14

Candidate Starts for Eponine_29:

(Start: 14 @24914 has 6 MA's), (Start: 18 @24917 has 98 MA's), (64, 25157), (70, 25193), (71, 25202), (75, 25208), (80, 25253), (87, 25298), (92, 25316), (96, 25343), (112, 25424), (119, 25481), (122, 25505),

Gene: Etoile_22 Start: 21299, Stop: 22336, Start Num: 18

Candidate Starts for Etoile_22:

(11, 21275), (Start: 14 @21296 has 6 MA's), (Start: 18 @21299 has 98 MA's), (25, 21323), (48, 21461), (55, 21503), (70, 21572), (80, 21632), (87, 21677), (96, 21722), (112, 21803), (119, 21860), (122, 21884), (137, 21989), (151, 22061), (161, 22106), (187, 22271),

Gene: Ewald_30 Start: 26639, Stop: 27724, Start Num: 18

Candidate Starts for Ewald_30:

(7, 26504), (Start: 18 @26639 has 98 MA's), (34, 26744), (40, 26762), (54, 26849), (94, 27062), (97, 27077), (105, 27104), (108, 27119), (119, 27212), (120, 27227), (129, 27284), (137, 27344), (145, 27377),

Gene: FF47_25 Start: 21654, Stop: 22679, Start Num: 15

Candidate Starts for FF47_25:

(Start: 15 @21654 has 2 MA's), (32, 21744), (46, 21813), (49, 21822), (65, 21900), (77, 21963), (78, 21966), (108, 22110), (112, 22146), (125, 22254), (168, 22491), (188, 22617),

Gene: Faiyaz_28 Start: 26025, Stop: 27062, Start Num: 18

Candidate Starts for Faiyaz_28:

(Start: 18 @26025 has 98 MA's), (39, 26148), (52, 26202), (57, 26238), (71, 26301), (80, 26349), (90, 26403), (91, 26406), (121, 26592), (125, 26628), (131, 26670), (136, 26688), (147, 26739),

Gene: Farewell_21 Start: 21884, Stop: 22930, Start Num: 18

Candidate Starts for Farewell_21:

(Start: 18 @21884 has 98 MA's), (53, 22076), (57, 22097), (80, 22208), (87, 22250), (88, 22253), (121, 22454), (125, 22490), (146, 22598), (174, 22751), (175, 22760), (180, 22772),

Gene: Feyre_27 Start: 23851, Stop: 24918, Start Num: 18

Candidate Starts for Feyre_27:

(Start: 18 @23851 has 98 MA's), (36, 23968), (61, 24073), (62, 24079), (75, 24139), (76, 24154), (80, 24181), (86, 24220), (87, 24223), (90, 24235), (91, 24238), (92, 24241), (94, 24256), (105, 24301), (106, 24307), (113, 24361), (119, 24409), (124, 24439), (130, 24484), (158, 24667),

Gene: FirstPlacePfu_22 Start: 21299, Stop: 22336, Start Num: 18

Candidate Starts for FirstPlacePfu_22:

(11, 21275), (Start: 14 @21296 has 6 MA's), (Start: 18 @21299 has 98 MA's), (25, 21323), (48, 21461), (55, 21503), (70, 21572), (80, 21632), (87, 21677), (96, 21722), (112, 21803), (119, 21860), (122, 21884), (137, 21989), (151, 22061), (161, 22106), (187, 22271),

Gene: Fishburne_22 Start: 21299, Stop: 22336, Start Num: 18

Candidate Starts for Fishburne_22:

(11, 21275), (Start: 14 @21296 has 6 MA's), (Start: 18 @21299 has 98 MA's), (25, 21323), (48, 21461), (55, 21503), (70, 21572), (80, 21632), (87, 21677), (96, 21722), (112, 21803), (119, 21860), (122, 21884), (137, 21989), (151, 22061), (161, 22106), (187, 22271),

Gene: Francois_27 Start: 23338, Stop: 24405, Start Num: 21

Candidate Starts for Francois_27:

(Start: 21 @23338 has 17 MA's), (90, 23716), (116, 23857), (119, 23884), (122, 23908), (132, 23992), (159, 24139),

Gene: FreakyGoo_32 Start: 26992, Stop: 28047, Start Num: 18

Candidate Starts for FreakyGoo_32:

(Start: 18 @26992 has 98 MA's), (57, 27205), (65, 27241), (77, 27304), (91, 27376), (96, 27406), (101, 27427), (109, 27463), (113, 27499), (119, 27547), (121, 27568), (123, 27574), (125, 27604), (126, 27607), (133, 27655), (172, 27844), (174, 27865), (184, 27919),

Gene: GaloreK_22 Start: 21295, Stop: 22332, Start Num: 18

Candidate Starts for GaloreK_22:

(11, 21271), (Start: 14 @21292 has 6 MA's), (Start: 18 @21295 has 98 MA's), (25, 21319), (48, 21457), (55, 21499), (70, 21568), (80, 21628), (87, 21673), (96, 21718), (112, 21799), (119, 21856), (122, 21880), (137, 21985), (151, 22057), (161, 22102), (187, 22267),

Gene: Gavriela_22 Start: 21561, Stop: 22601, Start Num: 13

Candidate Starts for Gavriela_22:

(Start: 13 @21561 has 9 MA's), (45, 21720), (48, 21726), (55, 21768), (68, 21834), (70, 21837), (80, 21897), (87, 21942), (96, 21987), (112, 22068), (119, 22125), (122, 22149), (137, 22254), (151,

22326), (161, 22371),

Gene: Gengar_27 Start: 23958, Stop: 25028, Start Num: 18

Candidate Starts for Gengar_27:

(Start: 18 @23958 has 98 MA's), (50, 24132), (62, 24186), (74, 24243), (75, 24246), (76, 24261), (80, 24288), (86, 24327), (87, 24330), (90, 24342), (91, 24345), (92, 24348), (106, 24417), (113, 24471), (124, 24549), (130, 24594), (158, 24777),

Gene: Glaske_22 Start: 21561, Stop: 22601, Start Num: 13

Candidate Starts for Glaske_22:

(Start: 13 @21561 has 9 MA's), (45, 21720), (48, 21726), (55, 21768), (68, 21834), (70, 21837), (80, 21897), (87, 21942), (96, 21987), (112, 22068), (119, 22125), (122, 22149), (137, 22254), (151, 22326), (161, 22371),

Gene: Glaske16_32 Start: 26991, Stop: 28046, Start Num: 18

Candidate Starts for Glaske16_32:

(Start: 18 @26991 has 98 MA's), (57, 27204), (65, 27240), (77, 27303), (91, 27375), (96, 27405), (101, 27426), (109, 27462), (113, 27498), (119, 27546), (121, 27567), (123, 27573), (125, 27603), (126, 27606), (133, 27654), (174, 27864), (184, 27918),

Gene: GrandSlam_27 Start: 23849, Stop: 24916, Start Num: 21

Candidate Starts for GrandSlam_27:

(Start: 21 @23849 has 17 MA's), (90, 24227), (116, 24368), (118, 24383), (119, 24395), (122, 24419), (132, 24503), (134, 24509), (139, 24542), (143, 24554), (159, 24650), (160, 24653), (167, 24674),

Gene: Guillsminger_27 Start: 23933, Stop: 25000, Start Num: 18

Candidate Starts for Guillsminger_27:

(Start: 18 @23933 has 98 MA's), (36, 24050), (50, 24107), (61, 24155), (62, 24161), (74, 24218), (75, 24221), (76, 24236), (80, 24263), (86, 24302), (87, 24305), (90, 24317), (91, 24320), (92, 24323), (94, 24338), (105, 24383), (106, 24389), (113, 24443), (119, 24491), (124, 24521), (130, 24566), (151, 24695), (158, 24749),

Gene: HC_22 Start: 21369, Stop: 22406, Start Num: 18

Candidate Starts for HC_22:

(11, 21345), (Start: 14 @21366 has 6 MA's), (Start: 18 @21369 has 98 MA's), (25, 21393), (48, 21531), (55, 21573), (70, 21642), (80, 21702), (87, 21747), (96, 21792), (112, 21873), (119, 21930), (122, 21954), (137, 22059), (151, 22131), (161, 22176), (187, 22341),

Gene: HUHilltop_22 Start: 21299, Stop: 22336, Start Num: 18

Candidate Starts for HUHilltop_22:

(11, 21275), (Start: 14 @21296 has 6 MA's), (Start: 18 @21299 has 98 MA's), (25, 21323), (48, 21461), (55, 21503), (70, 21572), (80, 21632), (87, 21677), (96, 21722), (112, 21803), (119, 21860), (122, 21884), (137, 21989), (151, 22061), (161, 22106), (187, 22271),

Gene: Hamood_27 Start: 23849, Stop: 24916, Start Num: 21

Candidate Starts for Hamood_27:

(Start: 21 @23849 has 17 MA's), (90, 24227), (116, 24368), (118, 24383), (119, 24395), (122, 24419), (132, 24503), (134, 24509), (139, 24542), (143, 24554), (159, 24650), (160, 24653), (167, 24674),

Gene: Heftyboy_27 Start: 24081, Stop: 25148, Start Num: 18

Candidate Starts for Heftyboy_27:

(Start: 18 @24081 has 98 MA's), (36, 24198), (50, 24255), (61, 24303), (62, 24309), (74, 24366), (75, 24369), (76, 24384), (80, 24411), (86, 24450), (87, 24453), (90, 24465), (91, 24468), (92, 24471), (94,

24486), (105, 24531), (106, 24537), (113, 24591), (119, 24639), (124, 24669), (130, 24714), (151, 24843), (158, 24897),

Gene: Hilltopfarm_28 Start: 26055, Stop: 27092, Start Num: 18

Candidate Starts for Hilltopfarm_28:

(Start: 18 @26055 has 98 MA's), (39, 26178), (52, 26232), (57, 26268), (71, 26331), (80, 26379), (90, 26433), (91, 26436), (121, 26622), (125, 26658), (131, 26700), (136, 26718), (147, 26769),

Gene: IPhone7_31 Start: 26992, Stop: 28047, Start Num: 18

Candidate Starts for IPhone7_31:

(Start: 18 @26992 has 98 MA's), (57, 27205), (65, 27241), (77, 27304), (91, 27376), (96, 27406), (101, 27427), (109, 27463), (113, 27499), (119, 27547), (121, 27568), (123, 27574), (125, 27604), (126, 27607), (133, 27655), (172, 27844), (174, 27865), (184, 27919),

Gene: Impisi_22 Start: 20207, Stop: 21247, Start Num: 17

Candidate Starts for Impisi_22:

(17, 20207), (48, 20372), (55, 20414), (70, 20483), (80, 20543), (87, 20588), (96, 20633), (111, 20702), (112, 20714), (119, 20771), (122, 20795), (137, 20900), (151, 20972), (161, 21017),

Gene: InvictusManeo_27 Start: 24083, Stop: 25147, Start Num: 18

Candidate Starts for InvictusManeo_27:

(Start: 18 @24083 has 98 MA's), (33, 24173), (36, 24200), (52, 24263), (62, 24311), (67, 24350), (74, 24368), (80, 24413), (86, 24452), (96, 24500), (100, 24518), (113, 24593), (122, 24659), (134, 24749), (135, 24752), (136, 24755), (140, 24788), (159, 24887), (160, 24890), (176, 24974), (181, 24986), (189, 25103),

Gene: Izel_32 Start: 26991, Stop: 28046, Start Num: 18

Candidate Starts for Izel_32:

(Start: 18 @26991 has 98 MA's), (57, 27204), (65, 27240), (77, 27303), (91, 27375), (96, 27405), (101, 27426), (109, 27462), (113, 27498), (119, 27546), (121, 27567), (123, 27573), (125, 27603), (126, 27606), (133, 27654), (174, 27864), (184, 27918),

Gene: Jebeks_22 Start: 21284, Stop: 22321, Start Num: 18

Candidate Starts for Jebeks_22:

(11, 21260), (Start: 14 @21281 has 6 MA's), (Start: 18 @21284 has 98 MA's), (25, 21308), (48, 21446), (55, 21488), (70, 21557), (80, 21617), (87, 21662), (96, 21707), (112, 21788), (119, 21845), (122, 21869), (137, 21974), (151, 22046), (161, 22091), (187, 22256),

Gene: Juliette_30 Start: 24531, Stop: 25565, Start Num: 16

Candidate Starts for Juliette_30:

(9, 24465), (Start: 16 @24531 has 5 MA's), (45, 24687), (46, 24690), (55, 24735), (57, 24744), (75, 24819), (87, 24906), (96, 24951), (112, 25032), (119, 25089), (122, 25113), (137, 25218), (151, 25290), (166, 25350), (187, 25500),

Gene: Jung_22 Start: 21225, Stop: 22292, Start Num: 18

Candidate Starts for Jung_22:

(11, 21201), (Start: 14 @21222 has 6 MA's), (Start: 18 @21225 has 98 MA's), (25, 21249), (45, 21381), (48, 21387), (55, 21429), (68, 21495), (70, 21498), (80, 21558), (87, 21603), (96, 21648), (112, 21729), (119, 21786), (122, 21810), (127, 21852), (150, 21981), (153, 22002),

Gene: Juniormint_22 Start: 21325, Stop: 22380, Start Num: 18

Candidate Starts for Juniormint_22:

(11, 21301), (Start: 14 @21322 has 6 MA's), (Start: 18 @21325 has 98 MA's), (25, 21349), (48, 21487), (55, 21529), (70, 21598), (80, 21676), (87, 21721), (96, 21766), (112, 21847), (119, 21904), (122, 21928), (137, 22033), (151, 22105), (161, 22150), (187, 22315),

Gene: Kari_22 Start: 21299, Stop: 22336, Start Num: 18

Candidate Starts for Kari_22:

(11, 21275), (Start: 14 @21296 has 6 MA's), (Start: 18 @21299 has 98 MA's), (25, 21323), (48, 21461), (55, 21503), (70, 21572), (80, 21632), (87, 21677), (96, 21722), (112, 21803), (119, 21860), (122, 21884), (137, 21989), (151, 22061), (161, 22106), (187, 22271),

Gene: Kevin1_22 Start: 19999, Stop: 21036, Start Num: 16

Candidate Starts for Kevin1_22:

(9, 19933), (Start: 16 @19999 has 5 MA's), (45, 20155), (48, 20161), (68, 20269), (75, 20287), (87, 20377), (96, 20422), (112, 20503), (122, 20584), (134, 20671), (137, 20689), (151, 20761), (161, 20806), (187, 20971),

Gene: KilKor_22 Start: 21561, Stop: 22601, Start Num: 13

Candidate Starts for KilKor_22:

(Start: 13 @21561 has 9 MA's), (45, 21720), (48, 21726), (55, 21768), (68, 21834), (70, 21837), (80, 21897), (87, 21942), (96, 21987), (112, 22068), (119, 22125), (122, 22149), (137, 22254), (151, 22326), (161, 22371),

Gene: KleverKiS_31 Start: 26972, Stop: 28027, Start Num: 18

Candidate Starts for KleverKiS_31:

(Start: 18 @26972 has 98 MA's), (57, 27185), (65, 27221), (77, 27284), (91, 27356), (96, 27386), (101, 27407), (109, 27443), (113, 27479), (119, 27527), (121, 27548), (123, 27554), (125, 27584), (126, 27587), (133, 27635), (174, 27845), (184, 27899),

Gene: Kratio_26 Start: 23714, Stop: 24778, Start Num: 18

Candidate Starts for Kratio_26:

(Start: 18 @23714 has 98 MA's), (33, 23804), (37, 23834), (52, 23894), (62, 23942), (67, 23981), (74, 23999), (86, 24083), (96, 24131), (100, 24149), (113, 24224), (122, 24290), (134, 24380), (135, 24383), (136, 24386), (140, 24419), (159, 24518), (160, 24521), (176, 24605), (181, 24617), (189, 24734),

Gene: Ksquared_22 Start: 21321, Stop: 22358, Start Num: 18

Candidate Starts for Ksquared_22:

(11, 21297), (Start: 14 @21318 has 6 MA's), (Start: 18 @21321 has 98 MA's), (25, 21345), (48, 21483), (55, 21525), (70, 21594), (80, 21654), (87, 21699), (96, 21744), (112, 21825), (119, 21882), (122, 21906), (137, 22011), (151, 22083), (161, 22128), (187, 22293),

Gene: Labelle_37 Start: 32043, Stop: 33083, Start Num: 21

Candidate Starts for Labelle_37:

(Start: 21 @32043 has 17 MA's), (32, 32121), (46, 32199), (89, 32412), (90, 32418), (108, 32496), (119, 32589), (123, 32616),

Gene: Langerak_22 Start: 21280, Stop: 22320, Start Num: 14

Candidate Starts for Langerak_22:

(11, 21259), (Start: 14 @21280 has 6 MA's), (Start: 18 @21283 has 98 MA's), (25, 21307), (48, 21445), (55, 21487), (70, 21556), (80, 21616), (87, 21661), (96, 21706), (112, 21787), (119, 21844), (122, 21868), (137, 21973), (151, 22045), (161, 22090), (187, 22255),

Gene: Larva_28 Start: 23878, Stop: 24942, Start Num: 18

Candidate Starts for Larva_28:

(Start: 18 @23878 has 98 MA's), (33, 23968), (37, 23998), (50, 24052), (52, 24058), (62, 24106), (67, 24145), (74, 24163), (75, 24166), (86, 24247), (96, 24295), (100, 24313), (122, 24454), (134, 24544), (135, 24547), (136, 24550), (140, 24583), (145, 24595), (159, 24682), (160, 24685), (181, 24781), (189, 24898),

Gene: Leston_27 Start: 24063, Stop: 25130, Start Num: 18

Candidate Starts for Leston_27:

(Start: 18 @24063 has 98 MA's), (36, 24180), (50, 24237), (61, 24285), (62, 24291), (74, 24348), (75, 24351), (76, 24366), (80, 24393), (86, 24432), (87, 24435), (90, 24447), (91, 24450), (92, 24453), (94, 24468), (105, 24513), (106, 24519), (113, 24573), (119, 24621), (124, 24651), (130, 24696), (151, 24825), (158, 24879),

Gene: LilDirt_26 Start: 23840, Stop: 24904, Start Num: 18

Candidate Starts for LilDirt_26:

(Start: 18 @23840 has 98 MA's), (33, 23930), (36, 23957), (52, 24020), (62, 24068), (67, 24107), (74, 24125), (80, 24170), (86, 24209), (96, 24257), (100, 24275), (113, 24350), (122, 24416), (134, 24506), (135, 24509), (136, 24512), (140, 24545), (159, 24644), (160, 24647), (176, 24731), (181, 24743), (189, 24860),

Gene: LilhomieP_30 Start: 26992, Stop: 28047, Start Num: 18

Candidate Starts for LilhomieP_30:

(Start: 18 @26992 has 98 MA's), (57, 27205), (65, 27241), (77, 27304), (91, 27376), (96, 27406), (101, 27427), (109, 27463), (113, 27499), (119, 27547), (121, 27568), (123, 27574), (125, 27604), (126, 27607), (133, 27655), (172, 27844), (174, 27865), (184, 27919),

Gene: LongHai_26 Start: 22028, Stop: 23053, Start Num: 15

Candidate Starts for LongHai_26:

(Start: 15 @22028 has 2 MA's), (32, 22118), (77, 22337), (78, 22340), (80, 22352), (108, 22484), (112, 22520), (119, 22571), (125, 22628), (168, 22865), (188, 22991),

Gene: LordVader_21 Start: 19492, Stop: 20529, Start Num: 19

Candidate Starts for LordVader_21:

(Start: 19 @19492 has 1 MA's), (25, 19516), (48, 19654), (55, 19696), (70, 19765), (80, 19825), (87, 19870), (96, 19915), (111, 19984), (119, 20053), (122, 20077), (137, 20182), (151, 20254), (161, 20299),

Gene: Maco6_23 Start: 20985, Stop: 22013, Start Num: 15

Candidate Starts for Maco6_23:

(Start: 15 @20985 has 2 MA's), (32, 21075), (46, 21144), (49, 21153), (65, 21231), (77, 21294), (78, 21297), (108, 21441), (112, 21477), (119, 21528), (125, 21585), (168, 21825), (188, 21951),

Gene: Madruga_36 Start: 31712, Stop: 32752, Start Num: 21

Candidate Starts for Madruga_36:

(Start: 21 @31712 has 17 MA's), (32, 31790), (46, 31868), (89, 32081), (90, 32087), (108, 32165), (119, 32258), (123, 32285),

Gene: Majeke_22 Start: 21305, Stop: 22342, Start Num: 18

Candidate Starts for Majeke_22:

(11, 21281), (Start: 14 @21302 has 6 MA's), (Start: 18 @21305 has 98 MA's), (25, 21329), (48, 21467), (55, 21509), (70, 21578), (80, 21638), (87, 21683), (96, 21728), (112, 21809), (119, 21866), (122, 21890), (137, 21995), (151, 22067), (161, 22112), (187, 22277),

Gene: MalagasyRose_28 Start: 22698, Stop: 23777, Start Num: 18

Candidate Starts for MalagasyRose_28:

(Start: 18 @22698 has 98 MA's), (24, 22719), (35, 22812), (44, 22854), (45, 22857), (50, 22872), (62, 22926), (65, 22947), (67, 22965), (80, 23028), (83, 23049), (92, 23088), (96, 23115), (100, 23133), (113, 23211), (115, 23229), (147, 23424), (154, 23484), (178, 23607),

Gene: Malithi_22 Start: 21221, Stop: 22261, Start Num: 14

Candidate Starts for Malithi_22:

(11, 21200), (Start: 14 @21221 has 6 MA's), (Start: 18 @21224 has 98 MA's), (25, 21248), (48, 21386), (55, 21428), (70, 21497), (80, 21557), (87, 21602), (96, 21647), (112, 21728), (119, 21785), (122, 21809), (137, 21914), (151, 21986), (161, 22031), (187, 22196),

Gene: Mangethe_22 Start: 21305, Stop: 22342, Start Num: 18

Candidate Starts for Mangethe_22:

(11, 21281), (Start: 14 @21302 has 6 MA's), (Start: 18 @21305 has 98 MA's), (25, 21329), (48, 21467), (55, 21509), (70, 21578), (80, 21638), (87, 21683), (96, 21728), (112, 21809), (119, 21866), (122, 21890), (137, 21995), (151, 22067), (161, 22112), (187, 22277),

Gene: Manilisa_32 Start: 27398, Stop: 28474, Start Num: 20

Candidate Starts for Manilisa_32:

(Start: 20 @27398 has 1 MA's), (37, 27515), (43, 27545), (54, 27608), (67, 27683), (68, 27686), (81, 27755), (83, 27767), (105, 27860), (119, 27962), (120, 27977), (129, 28034),

Gene: Megiddo_22 Start: 21561, Stop: 22601, Start Num: 13

Candidate Starts for Megiddo_22:

(Start: 13 @21561 has 9 MA's), (45, 21720), (48, 21726), (55, 21768), (68, 21834), (70, 21837), (80, 21897), (87, 21942), (96, 21987), (112, 22068), (119, 22125), (122, 22149), (137, 22254), (151, 22326), (161, 22371),

Gene: Meyran_29 Start: 27126, Stop: 28187, Start Num: 26

Candidate Starts for Meyran_29:

(Start: 18 @27099 has 98 MA's), (Start: 26 @27126 has 1 MA's), (54, 27309), (81, 27456), (105, 27561), (116, 27642), (119, 27669), (120, 27684), (129, 27747), (137, 27807), (182, 28044),

Gene: MichelleMyBell_22 Start: 20029, Stop: 21114, Start Num: 18

Candidate Starts for MichelleMyBell_22:

(9, 19963), (Start: 18 @20029 has 98 MA's), (48, 20191), (70, 20302), (80, 20362), (87, 20407), (112, 20533), (113, 20542), (119, 20590),

Gene: Miryou_27 Start: 23918, Stop: 24985, Start Num: 18

Candidate Starts for Miryou_27:

(Start: 18 @23918 has 98 MA's), (36, 24035), (50, 24092), (61, 24140), (62, 24146), (74, 24203), (75, 24206), (76, 24221), (80, 24248), (86, 24287), (87, 24290), (90, 24302), (91, 24305), (92, 24308), (94, 24323), (105, 24368), (106, 24374), (113, 24428), (119, 24476), (124, 24506), (130, 24551), (151, 24680), (158, 24734),

Gene: Muddy_25 Start: 21935, Stop: 22960, Start Num: 15

Candidate Starts for Muddy_25:

(Start: 15 @21935 has 2 MA's), (32, 22025), (65, 22181), (77, 22244), (78, 22247), (108, 22391), (112, 22427), (119, 22478), (125, 22535), (162, 22733), (168, 22772), (188, 22898),

Gene: Mulch_27 Start: 23315, Stop: 24382, Start Num: 21

Candidate Starts for Mulch_27:

(Start: 21 @23315 has 17 MA's), (58, 23525), (90, 23693), (116, 23834), (118, 23849), (119, 23861), (122, 23885), (132, 23969), (138, 24005), (159, 24116),

Gene: Nadeem_27 Start: 23315, Stop: 24382, Start Num: 21

Candidate Starts for Nadeem_27:

(Start: 21 @23315 has 17 MA's), (58, 23525), (90, 23693), (116, 23834), (118, 23849), (119, 23861), (122, 23885), (132, 23969), (159, 24116),

Gene: NancyRae_27 Start: 23321, Stop: 24388, Start Num: 21

Candidate Starts for NancyRae_27:

(Start: 21 @23321 has 17 MA's), (58, 23531), (90, 23699), (116, 23840), (118, 23855), (119, 23867), (122, 23891), (132, 23975), (138, 24011), (159, 24122),

Gene: Nazo_22 Start: 21497, Stop: 22546, Start Num: 18

Candidate Starts for Nazo_22:

(Start: 18 @21497 has 98 MA's), (24, 21518), (48, 21659), (53, 21689), (57, 21710), (71, 21773), (78, 21812), (110, 21971), (125, 22103), (142, 22199), (188, 22484),

Gene: Necropolis_22 Start: 21299, Stop: 22336, Start Num: 18

Candidate Starts for Necropolis_22:

(11, 21275), (Start: 14 @21296 has 6 MA's), (Start: 18 @21299 has 98 MA's), (25, 21323), (48, 21461), (55, 21503), (70, 21572), (80, 21632), (87, 21677), (96, 21722), (112, 21803), (119, 21860), (122, 21884), (137, 21989), (151, 22061), (161, 22106), (187, 22271),

Gene: Neighly_28 Start: 23877, Stop: 24941, Start Num: 18

Candidate Starts for Neighly_28:

(Start: 18 @23877 has 98 MA's), (33, 23967), (37, 23997), (50, 24051), (52, 24057), (62, 24105), (67, 24144), (74, 24162), (75, 24165), (86, 24246), (96, 24294), (100, 24312), (122, 24453), (134, 24543), (135, 24546), (136, 24549), (140, 24582), (145, 24594), (159, 24681), (160, 24684), (181, 24780), (189, 24897),

Gene: Nyceirae_31 Start: 26839, Stop: 27909, Start Num: 18

Candidate Starts for Nyceirae_31:

(Start: 18 @26839 has 98 MA's), (31, 26920), (34, 26944), (54, 27049), (65, 27106), (68, 27127), (78, 27175), (105, 27301), (112, 27352), (119, 27409), (120, 27424), (137, 27541),

Gene: Okabe_21 Start: 20462, Stop: 21499, Start Num: 18

Candidate Starts for Okabe_21:

(11, 20438), (Start: 14 @20459 has 6 MA's), (Start: 18 @20462 has 98 MA's), (25, 20486), (48, 20624), (55, 20666), (70, 20735), (80, 20795), (87, 20840), (96, 20885), (112, 20966), (119, 21023), (122, 21047), (137, 21152), (151, 21224), (161, 21269),

Gene: OkiRoe_27 Start: 23934, Stop: 25001, Start Num: 18

Candidate Starts for OkiRoe_27:

(Start: 18 @23934 has 98 MA's), (36, 24051), (50, 24108), (61, 24156), (62, 24162), (75, 24222), (76, 24237), (80, 24264), (86, 24303), (87, 24306), (90, 24318), (91, 24321), (92, 24324), (94, 24339), (105, 24384), (106, 24390), (113, 24444), (119, 24492), (124, 24522), (130, 24567), (151, 24696), (158, 24750),

Gene: Omnicron_28 Start: 22797, Stop: 23876, Start Num: 18

Candidate Starts for Omnicron_28:

(Start: 18 @22797 has 98 MA's), (Start: 26 @22824 has 1 MA's), (50, 22971), (52, 22977), (62, 23025), (67, 23064), (74, 23082), (76, 23100), (86, 23166), (94, 23202), (99, 23226), (100, 23232), (114,

23325), (128, 23427), (134, 23472), (145, 23517), (146, 23520), (149, 23538), (152, 23559), (157, 23601), (162, 23619), (178, 23715), (179, 23718), (191, 23859),

Gene: Panchino_21 Start: 20180, Stop: 21217, Start Num: 18

Candidate Starts for Panchino_21:

(Start: 18 @20180 has 98 MA's), (45, 20336), (48, 20342), (68, 20450), (75, 20468), (87, 20558), (96, 20603), (112, 20684), (122, 20765), (134, 20852), (137, 20870), (151, 20942), (161, 20987), (187, 21152),

Gene: Paola_27 Start: 23933, Stop: 25000, Start Num: 18

Candidate Starts for Paola_27:

(Start: 18 @23933 has 98 MA's), (36, 24050), (50, 24107), (61, 24155), (62, 24161), (74, 24218), (75, 24221), (76, 24236), (80, 24263), (86, 24302), (87, 24305), (90, 24317), (91, 24320), (92, 24323), (94, 24338), (105, 24383), (106, 24389), (113, 24443), (119, 24491), (124, 24521), (130, 24566), (151, 24695), (158, 24749),

Gene: Parada_27 Start: 23315, Stop: 24382, Start Num: 21

Candidate Starts for Parada_27:

(Start: 21 @23315 has 17 MA's), (58, 23525), (90, 23693), (116, 23834), (118, 23849), (119, 23861), (122, 23885), (132, 23969), (138, 24005), (159, 24116),

Gene: Patience_38 Start: 32593, Stop: 33633, Start Num: 21

Candidate Starts for Patience_38:

(Start: 21 @32593 has 17 MA's), (32, 32671), (46, 32749), (89, 32962), (90, 32968), (108, 33046), (119, 33139), (123, 33166),

Gene: PeanutPie_22 Start: 21330, Stop: 22343, Start Num: 25

Candidate Starts for PeanutPie_22:

(11, 21282), (Start: 14 @21303 has 6 MA's), (Start: 18 @21306 has 98 MA's), (25, 21330), (48, 21468), (55, 21510), (70, 21579), (80, 21639), (87, 21684), (96, 21729), (112, 21810), (119, 21867), (122, 21891), (137, 21996), (151, 22068), (161, 22113), (187, 22278),

Gene: PegLeg_31 Start: 26991, Stop: 28046, Start Num: 18

Candidate Starts for PegLeg_31:

(Start: 18 @26991 has 98 MA's), (57, 27204), (65, 27240), (77, 27303), (91, 27375), (96, 27405), (101, 27426), (109, 27462), (113, 27498), (119, 27546), (121, 27567), (123, 27573), (125, 27603), (126, 27606), (133, 27654), (172, 27843), (174, 27864), (184, 27918),

Gene: Phalm_22 Start: 21561, Stop: 22601, Start Num: 13

Candidate Starts for Phalm_22:

(Start: 13 @21561 has 9 MA's), (45, 21720), (48, 21726), (55, 21768), (68, 21834), (70, 21837), (80, 21897), (87, 21942), (96, 21987), (112, 22068), (119, 22125), (122, 22149), (137, 22254), (151, 22326), (161, 22371),

Gene: Phayonce_22 Start: 21448, Stop: 22485, Start Num: 18

Candidate Starts for Phayonce_22:

(Start: 18 @21448 has 98 MA's), (48, 21610), (57, 21661), (65, 21697), (71, 21724), (80, 21772), (91, 21829), (98, 21865), (121, 22018), (125, 22054), (137, 22126), (165, 22261), (174, 22315), (186, 22393),

Gene: Phegasus_22 Start: 21305, Stop: 22342, Start Num: 18

Candidate Starts for Phegasus_22:

(11, 21281), (Start: 14 @21302 has 6 MA's), (Start: 18 @21305 has 98 MA's), (25, 21329), (48, 21467), (55, 21509), (70, 21578), (80, 21638), (87, 21683), (96, 21728), (112, 21809), (119, 21866), (122, 21890), (137, 21995), (151, 22067), (161, 22112), (187, 22277),

Gene: Phineas_22 Start: 21670, Stop: 22707, Start Num: 18

Candidate Starts for Phineas_22:

(Start: 18 @21670 has 98 MA's), (48, 21835), (55, 21877), (68, 21943), (70, 21946), (75, 21961), (87, 22048), (96, 22093), (112, 22174), (119, 22231), (122, 22255), (137, 22360), (151, 22432), (161, 22477),

Gene: Phrann_21 Start: 20409, Stop: 21479, Start Num: 14

Candidate Starts for Phrann_21:

(Start: 14 @20409 has 6 MA's), (Start: 18 @20412 has 98 MA's), (48, 20574), (55, 20616), (70, 20685), (80, 20745), (87, 20790), (96, 20835), (111, 20904), (112, 20916), (119, 20973), (122, 20997), (150, 21168),

Gene: Pimento_27 Start: 22790, Stop: 23857, Start Num: 18

Candidate Starts for Pimento_27:

(7, 22655), (Start: 18 @22790 has 98 MA's), (62, 23009), (80, 23111), (87, 23153), (90, 23165), (116, 23309), (119, 23336), (122, 23360), (139, 23483), (155, 23573), (159, 23591),

Gene: Polkaroo_22 Start: 21315, Stop: 22352, Start Num: 18

Candidate Starts for Polkaroo_22:

(11, 21291), (Start: 14 @21312 has 6 MA's), (Start: 18 @21315 has 98 MA's), (25, 21339), (48, 21477), (55, 21519), (70, 21588), (80, 21648), (87, 21693), (96, 21738), (112, 21819), (119, 21876), (122, 21900), (137, 22005), (151, 22077), (161, 22122), (187, 22287),

Gene: Purky_22 Start: 21124, Stop: 22170, Start Num: 18

Candidate Starts for Purky_22:

(Start: 18 @21124 has 98 MA's), (57, 21337), (80, 21448), (87, 21490), (88, 21493), (103, 21562), (121, 21694), (125, 21730), (146, 21838), (174, 21991), (175, 22000), (180, 22012),

Gene: Rando14_28 Start: 22698, Stop: 23777, Start Num: 18

Candidate Starts for Rando14_28:

(Start: 18 @22698 has 98 MA's), (23, 22716), (37, 22818), (50, 22872), (51, 22875), (52, 22878), (62, 22926), (66, 22962), (67, 22965), (68, 22968), (76, 23001), (94, 23103), (96, 23115), (99, 23127), (100, 23133), (104, 23145), (108, 23166), (117, 23244), (123, 23286), (128, 23328), (134, 23373), (157, 23502),

Gene: RavenCo17_26 Start: 23835, Stop: 24911, Start Num: 18

Candidate Starts for RavenCo17_26:

(7, 23700), (Start: 18 @23835 has 98 MA's), (42, 23973), (54, 24045), (63, 24075), (87, 24225), (90, 24237), (99, 24279), (102, 24291), (112, 24348), (119, 24399), (129, 24471), (145, 24564), (173, 24726), (189, 24867),

Gene: Raymond7_21 Start: 20415, Stop: 21500, Start Num: 18

Candidate Starts for Raymond7_21:

(Start: 18 @20415 has 98 MA's), (48, 20577), (70, 20688), (71, 20697), (75, 20703), (80, 20748), (87, 20793), (112, 20919), (113, 20928), (119, 20976),

Gene: Rebel_21 Start: 19868, Stop: 20905, Start Num: 19

Candidate Starts for Rebel_21:

(4, 19631), (5, 19673), (6, 19703), (8, 19733), (10, 19793), (12, 19847), (Start: 19 @19868 has 1 MA's), (48, 20030), (55, 20072), (70, 20141), (80, 20201), (87, 20246), (96, 20291), (111, 20360), (119, 20429), (122, 20453), (137, 20558), (151, 20630), (161, 20675),

Gene: Reindeer_30 Start: 26952, Stop: 28001, Start Num: 18

Candidate Starts for Reindeer_30:

(Start: 18 @26952 has 98 MA's), (28, 26988), (57, 27165), (71, 27228), (73, 27231), (79, 27270), (81, 27285), (92, 27336), (101, 27384), (113, 27453), (119, 27501), (121, 27522), (123, 27528), (125, 27558), (137, 27630), (165, 27765), (174, 27819), (183, 27870), (185, 27876), (186, 27909),

Gene: Rubeelu_22 Start: 19998, Stop: 21038, Start Num: 16

Candidate Starts for Rubeelu_22:

(9, 19932), (Start: 16 @19998 has 5 MA's), (45, 20157), (48, 20163), (68, 20271), (70, 20274), (75, 20289), (87, 20379), (96, 20424), (112, 20505), (119, 20562), (122, 20586), (134, 20673), (137, 20691), (151, 20763), (161, 20808), (187, 20973),

Gene: Ruthiejr_29 Start: 24262, Stop: 25296, Start Num: 16

Candidate Starts for Ruthiejr_29:

(9, 24196), (Start: 16 @24262 has 5 MA's), (45, 24418), (46, 24421), (55, 24466), (57, 24475), (75, 24550), (87, 24637), (96, 24682), (112, 24763), (119, 24820), (122, 24844), (137, 24949), (151, 25021), (166, 25081), (187, 25231),

Gene: Salvus_26 Start: 22028, Stop: 23053, Start Num: 15

Candidate Starts for Salvus_26:

(Start: 15 @22028 has 2 MA's), (32, 22118), (77, 22337), (78, 22340), (80, 22352), (108, 22484), (112, 22520), (119, 22571), (125, 22628), (168, 22865), (188, 22991),

Gene: SamScheppers_27 Start: 24552, Stop: 25625, Start Num: 14

Candidate Starts for SamScheppers_27:

(Start: 14 @24552 has 6 MA's), (Start: 18 @24555 has 98 MA's), (64, 24795), (70, 24831), (71, 24840), (75, 24846), (80, 24891), (87, 24936), (92, 24954), (96, 24981), (112, 25062), (119, 25119), (122, 25143),

Gene: Sbash_21 Start: 21030, Stop: 22079, Start Num: 18

Candidate Starts for Sbash_21:

(Start: 18 @21030 has 98 MA's), (48, 21192), (57, 21243), (71, 21306), (91, 21411), (121, 21600), (125, 21636), (137, 21708), (165, 21843), (174, 21897), (186, 21987),

Gene: Scitech_21 Start: 20194, Stop: 21228, Start Num: 18

Candidate Starts for Scitech_21:

(Start: 18 @20194 has 98 MA's), (45, 20350), (48, 20356), (68, 20464), (70, 20467), (75, 20482), (87, 20569), (96, 20614), (112, 20695), (119, 20752), (122, 20776), (137, 20881), (151, 20953), (161, 20998),

Gene: Shweta_21 Start: 20201, Stop: 21238, Start Num: 13

Candidate Starts for Shweta_21:

(Start: 13 @20201 has 9 MA's), (45, 20357), (48, 20363), (55, 20405), (68, 20471), (70, 20474), (80, 20534), (87, 20579), (96, 20624), (112, 20705), (119, 20762), (122, 20786), (137, 20891), (151, 20963), (161, 21008),

Gene: Skinny_32 Start: 27432, Stop: 28493, Start Num: 18

Candidate Starts for Skinny_32:

(Start: 18 @27432 has 98 MA's), (27, 27468), (31, 27510), (50, 27600), (53, 27621), (60, 27648), (71, 27711), (87, 27801), (90, 27813), (93, 27822), (101, 27867), (113, 27933), (122, 28005), (134, 28095), (137, 28113), (158, 28230), (163, 28242), (181, 28332),

Gene: SkinnyPete_21 Start: 20204, Stop: 21241, Start Num: 18

Candidate Starts for SkinnyPete_21:

(Start: 18 @20204 has 98 MA's), (45, 20360), (48, 20366), (68, 20474), (75, 20492), (87, 20582), (96, 20627), (112, 20708), (122, 20789), (134, 20876), (137, 20894), (151, 20966), (161, 21011), (187, 21176),

Gene: SlimJimmy_30 Start: 26975, Stop: 28030, Start Num: 18

Candidate Starts for SlimJimmy_30:

(Start: 18 @26975 has 98 MA's), (57, 27188), (65, 27224), (77, 27287), (91, 27359), (96, 27389), (101, 27410), (109, 27446), (113, 27482), (119, 27530), (121, 27551), (123, 27557), (125, 27587), (126, 27590), (133, 27638), (174, 27848), (184, 27902),

Gene: SoSeph_27 Start: 24081, Stop: 25148, Start Num: 18

Candidate Starts for SoSeph_27:

(Start: 18 @24081 has 98 MA's), (36, 24198), (50, 24255), (61, 24303), (62, 24309), (74, 24366), (75, 24369), (76, 24384), (80, 24411), (86, 24450), (87, 24453), (90, 24465), (91, 24468), (92, 24471), (94, 24486), (105, 24531), (106, 24537), (113, 24591), (119, 24639), (124, 24669), (130, 24714), (151, 24843), (158, 24897),

Gene: Sonah_22 Start: 21289, Stop: 22326, Start Num: 18

Candidate Starts for Sonah_22:

(11, 21265), (Start: 14 @21286 has 6 MA's), (Start: 18 @21289 has 98 MA's), (25, 21313), (48, 21451), (55, 21493), (70, 21562), (80, 21622), (87, 21667), (96, 21712), (112, 21793), (119, 21850), (122, 21874), (137, 21979), (151, 22051), (161, 22096), (187, 22261),

Gene: Sparky_21 Start: 21885, Stop: 22931, Start Num: 18

Candidate Starts for Sparky_21:

(Start: 18 @21885 has 98 MA's), (57, 22098), (59, 22104), (80, 22209), (87, 22251), (88, 22254), (103, 22323), (121, 22455), (125, 22491), (146, 22599), (174, 22752), (175, 22761), (180, 22773),

Gene: StevieRay_22 Start: 21290, Stop: 22327, Start Num: 18

Candidate Starts for StevieRay_22:

(11, 21266), (Start: 14 @21287 has 6 MA's), (Start: 18 @21290 has 98 MA's), (25, 21314), (48, 21452), (55, 21494), (70, 21563), (80, 21623), (87, 21668), (96, 21713), (112, 21794), (119, 21851), (122, 21875), (137, 21980), (151, 22052), (161, 22097), (187, 22262),

Gene: StressBall_22 Start: 21561, Stop: 22601, Start Num: 13

Candidate Starts for StressBall_22:

(Start: 13 @21561 has 9 MA's), (45, 21720), (48, 21726), (55, 21768), (68, 21834), (70, 21837), (80, 21897), (87, 21942), (96, 21987), (112, 22068), (119, 22125), (122, 22149), (137, 22254), (151, 22326), (161, 22371),

Gene: SuperSonics_37 Start: 31769, Stop: 32809, Start Num: 21

Candidate Starts for SuperSonics_37:

(Start: 21 @31769 has 17 MA's), (32, 31847), (46, 31925), (89, 32138), (90, 32144), (108, 32222), (119, 32315), (123, 32342),

Gene: Taquito_27 Start: 24633, Stop: 25676, Start Num: 14

Candidate Starts for Taquito_27:

(Start: 14 @24633 has 6 MA's), (Start: 18 @24636 has 98 MA's), (64, 24876), (70, 24912), (71, 24921), (75, 24927), (80, 24972), (87, 25017), (92, 25035), (96, 25062), (112, 25143), (119, 25200), (122, 25224), (137, 25329), (151, 25401), (161, 25446),

Gene: Techage_22 Start: 21290, Stop: 22327, Start Num: 18

Candidate Starts for Techage_22:

(11, 21266), (Start: 14 @21287 has 6 MA's), (Start: 18 @21290 has 98 MA's), (25, 21314), (48, 21452), (55, 21494), (70, 21563), (80, 21623), (87, 21668), (96, 21713), (112, 21794), (119, 21851), (122, 21875), (137, 21980), (151, 22052), (161, 22097), (187, 22262),

Gene: Thespis_22 Start: 21299, Stop: 22336, Start Num: 18

Candidate Starts for Thespis_22:

(11, 21275), (Start: 14 @21296 has 6 MA's), (Start: 18 @21299 has 98 MA's), (25, 21323), (48, 21461), (55, 21503), (70, 21572), (80, 21632), (87, 21677), (96, 21722), (112, 21803), (119, 21860), (122, 21884), (137, 21989), (151, 22061), (161, 22106), (187, 22271),

Gene: ThulaThula_22 Start: 21454, Stop: 22491, Start Num: 18

Candidate Starts for ThulaThula_22:

(Start: 18 @21454 has 98 MA's), (48, 21616), (57, 21667), (65, 21703), (71, 21730), (80, 21778), (91, 21835), (98, 21871), (121, 22024), (125, 22060), (137, 22132), (165, 22267), (174, 22321), (186, 22399),

Gene: Thyatira_27 Start: 23933, Stop: 25000, Start Num: 18

Candidate Starts for Thyatira_27:

(Start: 18 @23933 has 98 MA's), (36, 24050), (50, 24107), (61, 24155), (62, 24161), (74, 24218), (75, 24221), (76, 24236), (80, 24263), (86, 24302), (87, 24305), (90, 24317), (91, 24320), (92, 24323), (94, 24338), (105, 24383), (106, 24389), (113, 24443), (119, 24491), (124, 24521), (130, 24566), (151, 24695), (158, 24749), (169, 24794),

Gene: Tortellini_22 Start: 21866, Stop: 22936, Start Num: 18

Candidate Starts for Tortellini_22:

(Start: 18 @21866 has 98 MA's), (64, 22106), (70, 22142), (71, 22151), (75, 22157), (80, 22202), (87, 22247), (92, 22265), (96, 22292), (112, 22373), (122, 22454), (146, 22592), (147, 22595),

Gene: Towmatter_36 Start: 34440, Stop: 35507, Start Num: 18

Candidate Starts for Towmatter_36:

(Start: 18 @34440 has 98 MA's), (82, 34785), (92, 34830), (97, 34860), (141, 35151), (144, 35157), (148, 35175), (156, 35241), (157, 35244), (162, 35262), (171, 35310), (192, 35496),

Gene: TpudiCK_32 Start: 26991, Stop: 28046, Start Num: 18

Candidate Starts for TpudiCK_32:

(Start: 18 @26991 has 98 MA's), (57, 27204), (65, 27240), (77, 27303), (91, 27375), (96, 27405), (101, 27426), (109, 27462), (113, 27498), (119, 27546), (121, 27567), (123, 27573), (125, 27603), (126, 27606), (133, 27654), (172, 27843), (174, 27864), (184, 27918),

Gene: TyDawg_31 Start: 26992, Stop: 28047, Start Num: 18

Candidate Starts for TyDawg_31:

(Start: 18 @26992 has 98 MA's), (57, 27205), (65, 27241), (77, 27304), (91, 27376), (96, 27406), (101, 27427), (109, 27463), (113, 27499), (119, 27547), (121, 27568), (123, 27574), (125, 27604), (126, 27607), (133, 27655), (172, 27844), (174, 27865), (184, 27919),

Gene: Typha_28 Start: 26025, Stop: 27062, Start Num: 18

Candidate Starts for Typha_28:

(Start: 18 @26025 has 98 MA's), (39, 26148), (52, 26202), (57, 26238), (71, 26301), (80, 26349), (90, 26403), (91, 26406), (121, 26592), (125, 26628), (131, 26670), (136, 26688), (147, 26739),

Gene: Venti_22 Start: 21299, Stop: 22336, Start Num: 18

Candidate Starts for Venti_22:

(11, 21275), (Start: 14 @21296 has 6 MA's), (Start: 18 @21299 has 98 MA's), (25, 21323), (48, 21461), (55, 21503), (70, 21572), (80, 21632), (87, 21677), (96, 21722), (112, 21803), (119, 21860), (122, 21884), (137, 21989), (151, 22061), (161, 22106), (187, 22271),

Gene: Vidya_22 Start: 21299, Stop: 22336, Start Num: 18

Candidate Starts for Vidya_22:

(11, 21275), (Start: 14 @21296 has 6 MA's), (Start: 18 @21299 has 98 MA's), (25, 21323), (48, 21461), (55, 21503), (70, 21572), (80, 21632), (87, 21677), (96, 21722), (112, 21803), (119, 21860), (122, 21884), (137, 21989), (151, 22061), (161, 22106), (187, 22271),

Gene: ViviJ_26 Start: 23840, Stop: 24904, Start Num: 18

Candidate Starts for ViviJ_26:

(Start: 18 @23840 has 98 MA's), (33, 23930), (36, 23957), (52, 24020), (62, 24068), (67, 24107), (74, 24125), (80, 24170), (86, 24209), (96, 24257), (100, 24275), (113, 24350), (122, 24416), (134, 24506), (135, 24509), (136, 24512), (140, 24545), (159, 24644), (160, 24647), (176, 24731), (181, 24743), (189, 24860),

Gene: WST1_22 Start: 19043, Stop: 20098, Start Num: 18

Candidate Starts for WST1_22:

(Start: 18 @19043 has 98 MA's), (36, 19160), (75, 19334), (94, 19451), (95, 19457), (122, 19622), (136, 19715), (146, 19763), (151, 19799), (170, 19892),

Gene: Waterfoul_27 Start: 23954, Stop: 25021, Start Num: 18

Candidate Starts for Waterfoul_27:

(Start: 18 @23954 has 98 MA's), (36, 24071), (61, 24176), (62, 24182), (75, 24242), (76, 24257), (80, 24284), (86, 24323), (87, 24326), (90, 24338), (91, 24341), (92, 24344), (94, 24359), (105, 24404), (106, 24410), (113, 24464), (119, 24512), (124, 24542), (130, 24587), (151, 24716), (158, 24770),

Gene: WheatThin_27 Start: 23315, Stop: 24382, Start Num: 21

Candidate Starts for WheatThin_27:

(Start: 21 @23315 has 17 MA's), (58, 23525), (90, 23693), (116, 23834), (118, 23849), (119, 23861), (122, 23885), (132, 23969), (159, 24116),

Gene: Willsammy_22 Start: 21571, Stop: 22605, Start Num: 18

Candidate Starts for Willsammy_22:

(Start: 18 @21571 has 98 MA's), (45, 21727), (48, 21733), (68, 21841), (70, 21844), (75, 21859), (87, 21946), (96, 21991), (112, 22072), (119, 22129), (122, 22153), (137, 22258), (151, 22330), (161, 22375),

Gene: Xavia_22 Start: 21888, Stop: 22955, Start Num: 18

Candidate Starts for Xavia_22:

(Start: 18 @21888 has 98 MA's), (48, 22050), (55, 22092), (70, 22161), (80, 22221), (87, 22266), (92, 22284), (96, 22311), (112, 22392), (119, 22449), (122, 22473), (150, 22644),

Gene: Xeno_21 Start: 20200, Stop: 21240, Start Num: 13

Candidate Starts for Xeno_21:

(Start: 13 @20200 has 9 MA's), (48, 20365), (55, 20407), (70, 20476), (80, 20536), (87, 20581), (96, 20626), (112, 20707), (119, 20764), (122, 20788), (137, 20893), (151, 20965), (161, 21010),

Gene: Zilizebeth_22 Start: 21299, Stop: 22336, Start Num: 18

Candidate Starts for Zilizebeth_22:

(11, 21275), (Start: 14 @21296 has 6 MA's), (Start: 18 @21299 has 98 MA's), (25, 21323), (48, 21461), (55, 21503), (70, 21572), (80, 21632), (87, 21677), (96, 21722), (112, 21803), (119, 21860), (122, 21884), (137, 21989), (151, 22061), (161, 22106), (187, 22271),