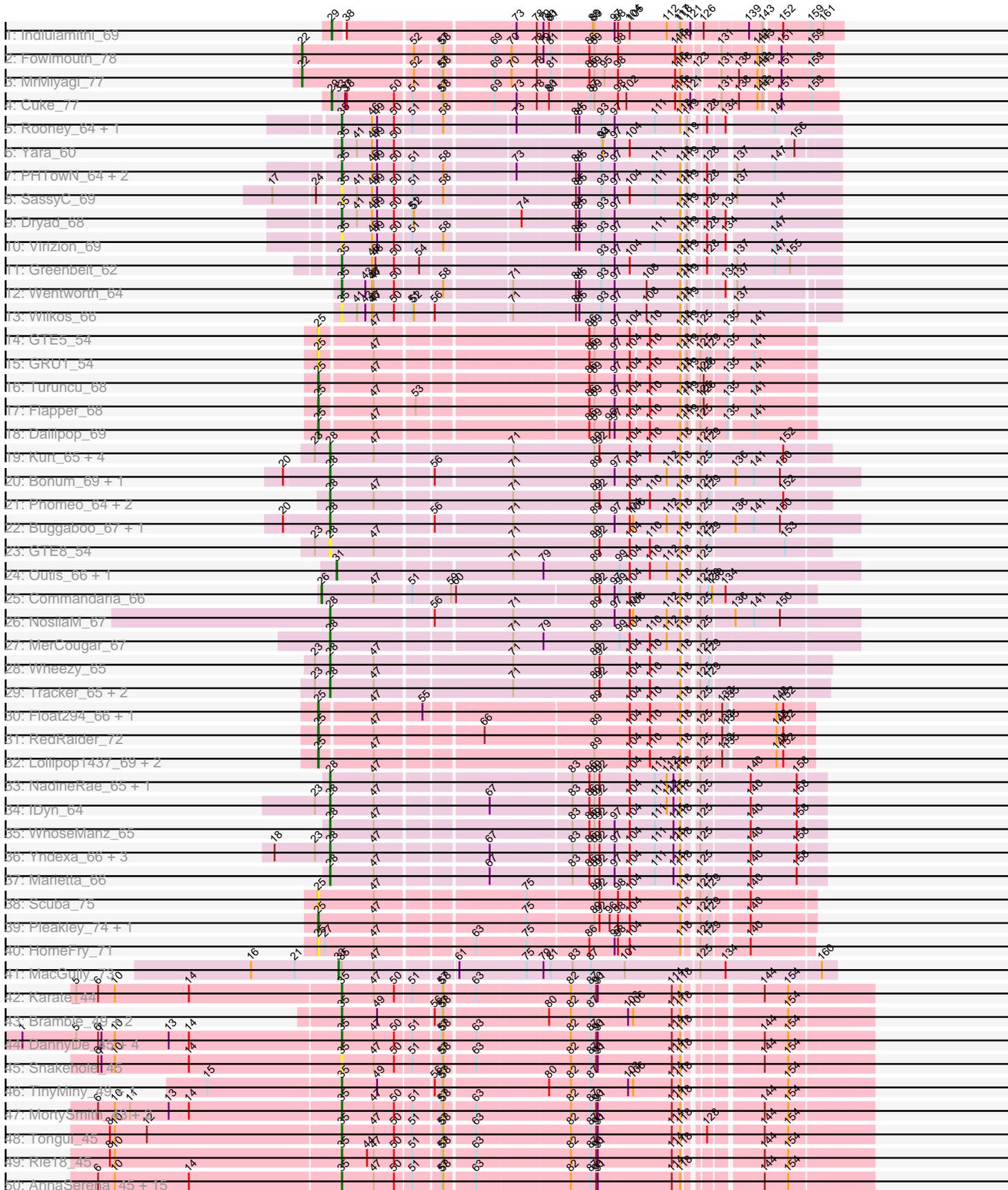
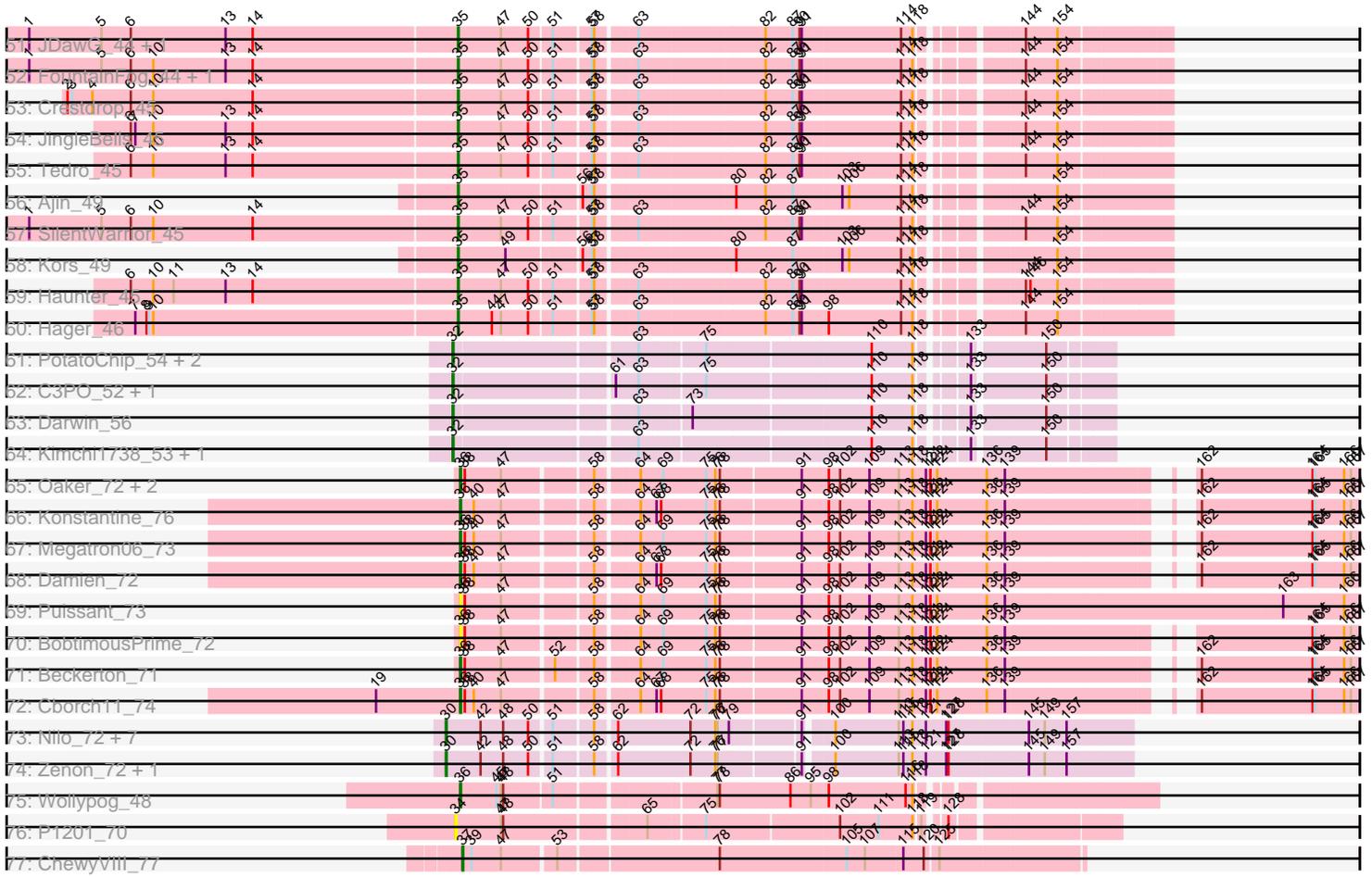


Pham 283583



Pham 283583



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 283583 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283583 has 139 members, 17 are drafts.

Phages represented in each track:

- Track 1 : Indlulamithi_69
- Track 2 : Fowlmouth_78
- Track 3 : MrMiyagi_77
- Track 4 : Cuke_77
- Track 5 : Rooney_64, Gibson_64
- Track 6 : Yara_60
- Track 7 : PHTowN_64, Lizz_64, ShakeNBake_64
- Track 8 : SassyC_69
- Track 9 : Dryad_68
- Track 10 : Virizion_69
- Track 11 : Greenbelt_62
- Track 12 : Wentworth_64
- Track 13 : Wilkos_66
- Track 14 : GTE5_54
- Track 15 : GRU1_54
- Track 16 : Turuncu_68
- Track 17 : Flapper_68
- Track 18 : Dalilpop_69
- Track 19 : Kurt_65, Emianna_65, NovumRegina_65, NatB6_65, GrootJr_67
- Track 20 : Bonum_69, Kabluna_68
- Track 21 : Phomeo_64, Jifall16_64, KidneyBean_65
- Track 22 : Buggaboo_67, SuperSulley_67
- Track 23 : GTE8_54
- Track 24 : Outis_66, StarStruck_66
- Track 25 : Commandaria_66
- Track 26 : NosilaM_67
- Track 27 : MerCougar_67
- Track 28 : Wheezy_65
- Track 29 : Tracker_65, Arti_64, Foxboro_66
- Track 30 : Float294_66, Skysand_67
- Track 31 : RedRaider_72
- Track 32 : Lollipop1437_69, Ennea_72, Patio_67
- Track 33 : NadineRae_65, HubbaBubba_60
- Track 34 : IDyn_64
- Track 35 : WhoseManz_65
- Track 36 : Yndexa_66, Sukkupi_66, Pemberton_68, BiPauneto_68
- Track 37 : Marietta_66

- Track 38 : Scuba_75
- Track 39 : Pleakley_74, Fury_74
- Track 40 : HomeFry_71
- Track 41 : MacGully_73
- Track 42 : Karate_44
- Track 43 : Bramble_49, Sparcetus_49, LordBart_49
- Track 44 : DannyDe_45, FreddieHg_45, Chivey_45, Hiddenleaf_45, Annapurna_45
- Track 45 : Snakehole_45
- Track 46 : TinyMiny_49, RikSengupta_49
- Track 47 : MortySmith_43, Erudite_44, Dauntless_44
- Track 48 : Tongui_45
- Track 49 : Rie18_45
- Track 50 : AnnaSerena_45, Pharpay_45, NarutoRun_45, Cybele_45, Gilda_45, Anakin_45, CoolCookie_45, Rachella_45, Krampus_45, Kate_46, Neptune_45, OhDear_45, Potty_45, PhunaPhoke_45, OverHedge_45, Artiphact_45
- Track 51 : JDawG_44, Aesir_44
- Track 52 : FountainFog_44, Poultruss_44
- Track 53 : Crestdrop_45
- Track 54 : JingleBells_45
- Track 55 : Tedro_45
- Track 56 : Ajin_49
- Track 57 : SilentWarrior_45
- Track 58 : Kors_49
- Track 59 : Haunter_45
- Track 60 : Hager_46
- Track 61 : PotatoChip_54, Zion_54, PeteyPab_53
- Track 62 : C3PO_52, Cruella_52
- Track 63 : Darwin_56
- Track 64 : Kimchi1738_53, Stickynote_54
- Track 65 : Oaker_72, Thumb_73, Phreeze_71
- Track 66 : Konstantine_76
- Track 67 : Megatron06_73
- Track 68 : Damien_72
- Track 69 : Puissant_73
- Track 70 : BobtimousPrime_72
- Track 71 : Beckerton_71
- Track 72 : Cborch11_74
- Track 73 : Nilo_72, Papyrus_70, Rope_70, Yelo_69, Weiss13_70, Riparian_72, Candle_68, MontyDev_72
- Track 74 : Zenon_72, Send513_70
- Track 75 : Wollypog_48
- Track 76 : P1201_70
- Track 77 : ChewyVIII_77

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

The start number called the most often in the published annotations is 35, it was called in 50 of the 122 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir_44, Ajin_49, Anakin_45, AnnaSerena_45, Annapurna_45, Artiphact_45, Bramble_49, Chivey_45, CoolCookie_45, Crestdrop_45, Cybele_45, DannyDe_45, Dauntless_44, Dryad_68, Erudite_44, FountainFog_44, FreddieHg_45, Gibson_64, Gilda_45, Greenbelt_62, Hager_46, Haunter_45, Hiddenleaf_45, JDawG_44, JingleBells_45, Karate_44, Kate_46, Kors_49, Krampus_45, Lizz_64, LordBart_49, MortySmith_43, NarutoRun_45, Neptune_45, OhDear_45, OverHedge_45, PHTown_64, Pharpay_45, PhunaPhoke_45, Potty_45, Poultruss_44, Rachella_45, Rie18_45, RikSengupta_49, Rooney_64, SassyC_69, ShakeNBake_64, SilentWarrior_45, Snakehole_45, Sparcetus_49, Tedro_45, TinyMiny_49, Tongui_45, Virizion_69, Wentworth_64, Wilkos_66, Yara_60,

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

- MacGully_73,

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

- Arti_64, Beckerton_71, BiPauneto_68, BobtimousPrime_72, Bonum_69, Buggaboo_67, C3PO_52, Candle_68, Cborch11_74, ChewyVIII_77, Commandaria_66, Cruella_52, Cuke_77, Dalilpop_69, Damien_72, Darwin_56, Emianna_65, Ennea_72, Flapper_68, Float294_66, Fowlmouth_78, Foxboro_66, Fury_74, GRU1_54, GTE5_54, GTE8_54, GrootJr_67, HomeFry_71, HubbaBubba_60, IDyn_64, Indlulamithi_69, Jifall16_64, Kabluna_68, KidneyBean_65, Kimchi1738_53, Konstantine_76, Kurt_65, Lollipop1437_69, Marietta_66, Megatron06_73, MerCougar_67, MontyDev_72, MrMiyagi_77, NadineRae_65, NatB6_65, Nilo_72, NosilaM_67, NovumRegina_65, Oaker_72, Outis_66, P1201_70, Papyrus_70, Patio_67, Pemberton_68, PeteyPab_53, Phomeo_64, Phreeze_71, Pleakley_74, PotatoChip_54, Puissant_73, RedRaider_72, Riparian_72, Rope_70, Scuba_75, Send513_70, Skysand_67, StarStruck_66, Stickynote_54, Sukkupi_66, SuperSulley_67, Thumb_73, Tracker_65, Turuncu_68, Weiss13_70, Wheezy_65, WhoseManz_65, Wollypog_48, Yelo_69, Yndexa_66, Zenon_72, Zion_54,

Summary by start number:

Start 22:

- Found in 2 of 139 (1.4%) of genes in pham
- Manual Annotations of this start: 2 of 122
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fowlmouth_78 (AC), MrMiyagi_77 (AC),

Start 25:

- Found in 15 of 139 (10.8%) of genes in pham
- Manual Annotations of this start: 11 of 122
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dalilpop_69 (CR1), Ennea_72 (CR3), Flapper_68 (CR1), Float294_66 (CR3), Fury_74 (CR5), GRU1_54 (CR1), GTE5_54 (CR1), HomeFry_71 (CR5), Lollipop1437_69 (CR3), Patio_67 (CR3), Pleakley_74 (CR5), RedRaider_72 (CR3), Scuba_75 (CR5), Skysand_67 (CR3), Turuncu_68 (CR1),

Start 26:

- Found in 1 of 139 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 122
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Commandaria_66 (CR2),

Start 28:

- Found in 28 of 139 (20.1%) of genes in pham
- Manual Annotations of this start: 26 of 122
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arti_64 (CR2), BiPauneto_68 (CR4), Bonum_69 (CR2), Buggaboo_67 (CR2), Emianna_65 (CR2), Foxboro_66 (CR2), GTE8_54 (CR2), GrootJr_67 (CR2), HubbaBubba_60 (CR4), IDyn_64 (CR4), Jifall16_64 (CR2), Kabluna_68 (CR2), KidneyBean_65 (CR2), Kurt_65 (CR2), Marietta_66 (CR4), MerCougar_67 (CR2), NadineRae_65 (CR4), NatB6_65 (CR2), NosilaM_67 (CR2), NovumRegina_65 (CR2), Pemberton_68 (CR4), Phomeo_64 (CR2), Sukkupi_66 (CR4), SuperSulley_67 (CR2), Tracker_65 (CR2), Wheezy_65 (CR2), WhoseManz_65 (CR4), Yndexa_66 (CR4),

Start 29:

- Found in 2 of 139 (1.4%) of genes in pham
- Manual Annotations of this start: 2 of 122
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cuke_77 (AC), Indlulamithi_69 (AC),

Start 30:

- Found in 10 of 139 (7.2%) of genes in pham
- Manual Annotations of this start: 9 of 122
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Candle_68 (R), MontyDev_72 (R), Nilo_72 (R), Papyrus_70 (R), Riparian_72 (R), Rope_70 (R), Send513_70 (R), Weiss13_70 (R), Yelo_69 (R), Zenon_72 (R),

Start 31:

- Found in 2 of 139 (1.4%) of genes in pham
- Manual Annotations of this start: 2 of 122
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Outis_66 (CR2), StarStruck_66 (CR2),

Start 32:

- Found in 8 of 139 (5.8%) of genes in pham
- Manual Annotations of this start: 8 of 122
- Called 100.0% of time when present
- Phage (with cluster) where this start called: C3PO_52 (EN), Cruella_52 (EN), Darwin_56 (EN), Kimchi1738_53 (EN), PeteyPab_53 (EN), PotatoChip_54 (EN), Stickynote_54 (EN), Zion_54 (EN),

Start 33:

- Found in 2 of 139 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 122
- Called 50.0% of time when present
- Phage (with cluster) where this start called: MacGully_73 (CR7),

Start 34:

- Found in 1 of 139 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present

- Phage (with cluster) where this start called: P1201_70 (singleton),

Start 35:

- Found in 58 of 139 (41.7%) of genes in pham
- Manual Annotations of this start: 50 of 122
- Called 98.3% of time when present
- Phage (with cluster) where this start called: Aesir_44 (EF), Ajin_49 (EF), Anakin_45 (EF), AnnaSerena_45 (EF), Annapurna_45 (EF), Artiphact_45 (EF), Bramble_49 (EF), Chivey_45 (EF), CoolCookie_45 (EF), Crestdrop_45 (EF), Cybele_45 (EF), DannyDe_45 (EF), Dauntless_44 (EF), Dryad_68 (BN), Erudite_44 (EF), FountainFog_44 (EF), FreddieHg_45 (EF), Gibson_64 (BN), Gilda_45 (EF), Greenbelt_62 (BN), Hager_46 (EF), Haunter_45 (EF), Hiddenleaf_45 (EF), JDawG_44 (EF), JingleBells_45 (EF), Karate_44 (EF), Kate_46 (EF), Kors_49 (EF), Krampus_45 (EF), Lizz_64 (BN), LordBart_49 (EF), MortySmith_43 (EF), NarutoRun_45 (EF), Neptune_45 (EF), OhDear_45 (EF), OverHedge_45 (EF), PHTown_64 (BN), Pharpay_45 (EF), PhunaPhoke_45 (EF), Potty_45 (EF), Poultruss_44 (EF), Rachella_45 (EF), Rie18_45 (EF), RikSengupta_49 (EF), Rooney_64 (BN), SassyC_69 (BN), ShakeNBake_64 (BN), SilentWarrior_45 (EF), Snakehole_45 (EF), Sparcetus_49 (EF), Tedro_45 (EF), TinyMiny_49 (EF), Tongui_45 (EF), Virizion_69 (BN), Wentworth_64 (BN), Wilkos_66 (BN), Yara_60 (BN),

Start 36:

- Found in 11 of 139 (7.9%) of genes in pham
- Manual Annotations of this start: 9 of 122
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beckerton_71 (H1), BobtimousPrime_72 (H1), Cborch11_74 (H1), Damien_72 (H1), Konstantine_76 (H1), Megatron06_73 (H1), Oaker_72 (H1), Phreeze_71 (H1), Puissant_73 (H1), Thumb_73 (H1), Wollypog_48 (singleton),

Start 37:

- Found in 2 of 139 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 122
- Called 50.0% of time when present
- Phage (with cluster) where this start called: ChewyVIII_77 (singleton),

Summary by clusters:

There are 13 clusters represented in this pham: CR2, CR3, AC, H1, CR7, CR4, CR5, BN, EF, singleton, CR1, R, EN,

Info for manual annotations of cluster AC:

- Start number 22 was manually annotated 2 times for cluster AC.
- Start number 29 was manually annotated 2 times for cluster AC.

Info for manual annotations of cluster BN:

- Start number 35 was manually annotated 9 times for cluster BN.

Info for manual annotations of cluster CR1:

- Start number 25 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 26 was manually annotated 1 time for cluster CR2.
- Start number 28 was manually annotated 18 times for cluster CR2.
- Start number 31 was manually annotated 2 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 25 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 28 was manually annotated 8 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 25 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster CR7:

- Start number 33 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster EF:

- Start number 35 was manually annotated 41 times for cluster EF.

Info for manual annotations of cluster EN:

- Start number 32 was manually annotated 8 times for cluster EN.

Info for manual annotations of cluster H1:

- Start number 36 was manually annotated 8 times for cluster H1.

Info for manual annotations of cluster R:

- Start number 30 was manually annotated 9 times for cluster R.

Gene Information:

Gene: Aesir_44 Start: 29791, Stop: 30636, Start Num: 35

Candidate Starts for Aesir_44:

(1, 29230), (5, 29326), (6, 29365), (13, 29491), (14, 29527), (Start: 35 @29791 has 50 MA's), (47, 29845), (50, 29881), (51, 29908), (57, 29953), (58, 29956), (63, 30001), (82, 30157), (87, 30193), (90, 30202), (91, 30205), (114, 30334), (118, 30349), (144, 30454), (154, 30496),

Gene: Ajin_49 Start: 31113, Stop: 31955, Start Num: 35

Candidate Starts for Ajin_49:

(Start: 35 @31113 has 50 MA's), (56, 31260), (57, 31272), (58, 31275), (80, 31437), (82, 31473), (87, 31509), (103, 31572), (106, 31581), (114, 31650), (118, 31665), (154, 31812),

Gene: Anakin_45 Start: 30144, Stop: 30992, Start Num: 35

Candidate Starts for Anakin_45:

(6, 29718), (10, 29748), (14, 29880), (Start: 35 @30144 has 50 MA's), (47, 30198), (50, 30234), (51, 30261), (57, 30306), (58, 30309), (63, 30354), (82, 30510), (87, 30546), (90, 30555), (91, 30558), (114, 30687), (118, 30702), (144, 30807), (154, 30849),

Gene: AnnaSerena_45 Start: 30179, Stop: 31027, Start Num: 35

Candidate Starts for AnnaSerena_45:

(6, 29753), (10, 29783), (14, 29915), (Start: 35 @30179 has 50 MA's), (47, 30233), (50, 30269), (51, 30296), (57, 30341), (58, 30344), (63, 30389), (82, 30545), (87, 30581), (90, 30590), (91, 30593), (114,

30722), (118, 30737), (144, 30842), (154, 30884),

Gene: Annapurna_45 Start: 29420, Stop: 30265, Start Num: 35

Candidate Starts for Annapurna_45:

(1, 28859), (5, 28955), (6, 28994), (7, 29000), (10, 29024), (13, 29120), (14, 29156), (Start: 35 @29420 has 50 MA's), (47, 29474), (50, 29510), (51, 29537), (57, 29582), (58, 29585), (63, 29630), (82, 29786), (87, 29822), (90, 29831), (91, 29834), (114, 29963), (118, 29978), (144, 30083), (154, 30125),

Gene: Arti_64 Start: 50810, Stop: 49992, Start Num: 28

Candidate Starts for Arti_64:

(23, 50837), (Start: 28 @50810 has 26 MA's), (47, 50738), (71, 50516), (89, 50375), (92, 50366), (104, 50315), (110, 50279), (118, 50225), (125, 50207), (129, 50192),

Gene: Artiphact_45 Start: 30168, Stop: 31016, Start Num: 35

Candidate Starts for Artiphact_45:

(6, 29742), (10, 29772), (14, 29904), (Start: 35 @30168 has 50 MA's), (47, 30222), (50, 30258), (51, 30285), (57, 30330), (58, 30333), (63, 30378), (82, 30534), (87, 30570), (90, 30579), (91, 30582), (114, 30711), (118, 30726), (144, 30831), (154, 30873),

Gene: Beckerton_71 Start: 53060, Stop: 54136, Start Num: 36

Candidate Starts for Beckerton_71:

(Start: 36 @53060 has 9 MA's), (38, 53066), (47, 53114), (52, 53177), (58, 53222), (64, 53270), (69, 53300), (75, 53357), (76, 53366), (78, 53372), (91, 53474), (98, 53507), (102, 53522), (109, 53561), (113, 53600), (118, 53618), (121, 53636), (122, 53639), (124, 53648), (136, 53714), (139, 53738), (162, 53927), (164, 54074), (165, 54077), (166, 54116), (167, 54125),

Gene: BiPauneto_68 Start: 50402, Stop: 49605, Start Num: 28

Candidate Starts for BiPauneto_68:

(18, 50501), (23, 50429), (Start: 28 @50402 has 26 MA's), (47, 50327), (67, 50153), (83, 50021), (86, 49991), (89, 49982), (92, 49973), (97, 49946), (104, 49919), (111, 49874), (115, 49841), (118, 49829), (125, 49811), (140, 49730), (158, 49652),

Gene: BobtimousPrime_72 Start: 53362, Stop: 54438, Start Num: 36

Candidate Starts for BobtimousPrime_72:

(Start: 36 @53362 has 9 MA's), (38, 53368), (47, 53416), (58, 53524), (64, 53572), (69, 53602), (75, 53659), (76, 53668), (78, 53674), (91, 53776), (98, 53809), (102, 53824), (109, 53863), (113, 53902), (118, 53920), (121, 53938), (122, 53941), (124, 53950), (136, 54016), (139, 54040), (164, 54376), (165, 54379), (166, 54418), (167, 54427),

Gene: Bonum_69 Start: 51702, Stop: 50839, Start Num: 28

Candidate Starts for Bonum_69:

(20, 51780), (Start: 28 @51702 has 26 MA's), (56, 51540), (71, 51414), (89, 51273), (97, 51240), (104, 51213), (112, 51147), (118, 51123), (125, 51105), (136, 51051), (141, 51021), (150, 50976),

Gene: Bramble_49 Start: 31162, Stop: 32004, Start Num: 35

Candidate Starts for Bramble_49:

(Start: 35 @31162 has 50 MA's), (49, 31225), (56, 31309), (57, 31321), (58, 31324), (80, 31486), (82, 31522), (87, 31558), (103, 31621), (106, 31630), (114, 31699), (118, 31714), (154, 31861),

Gene: Buggaboo_67 Start: 52253, Stop: 51390, Start Num: 28

Candidate Starts for Buggaboo_67:

(20, 52331), (Start: 28 @52253 has 26 MA's), (56, 52091), (71, 51965), (89, 51824), (97, 51791), (104, 51764), (106, 51758), (112, 51698), (118, 51674), (125, 51656), (136, 51602), (141, 51572), (150,

51527),

Gene: C3PO_52 Start: 45078, Stop: 44314, Start Num: 32

Candidate Starts for C3PO_52:

(Start: 32 @45078 has 8 MA's), (61, 44886), (63, 44859), (75, 44784), (110, 44577), (118, 44523), (133, 44478), (150, 44394),

Gene: Candle_68 Start: 52987, Stop: 53817, Start Num: 30

Candidate Starts for Candle_68:

(Start: 30 @52987 has 9 MA's), (42, 53032), (48, 53062), (50, 53095), (51, 53119), (58, 53167), (62, 53188), (72, 53281), (76, 53311), (77, 53314), (79, 53326), (91, 53410), (100, 53440), (113, 53524), (115, 53530), (118, 53542), (121, 53560), (127, 53587), (128, 53590), (145, 53686), (149, 53707), (157, 53734),

Gene: Cborch11_74 Start: 52603, Stop: 53682, Start Num: 36

Candidate Starts for Cborch11_74:

(19, 52492), (Start: 36 @52603 has 9 MA's), (38, 52609), (40, 52621), (47, 52657), (58, 52765), (64, 52813), (67, 52834), (68, 52840), (75, 52900), (76, 52909), (78, 52915), (91, 53017), (98, 53050), (102, 53065), (109, 53104), (113, 53143), (118, 53161), (121, 53179), (122, 53182), (124, 53191), (136, 53257), (139, 53281), (162, 53473), (164, 53620), (165, 53623), (166, 53662), (167, 53671),

Gene: ChewyVIII_77 Start: 56830, Stop: 56066, Start Num: 37

Candidate Starts for ChewyVIII_77:

(Start: 37 @56830 has 1 MA's), (39, 56821), (47, 56782), (53, 56716), (78, 56524), (105, 56359), (107, 56335), (115, 56287), (120, 56260), (125, 56245),

Gene: Chivey_45 Start: 29369, Stop: 30214, Start Num: 35

Candidate Starts for Chivey_45:

(1, 28808), (5, 28904), (6, 28943), (7, 28949), (10, 28973), (13, 29069), (14, 29105), (Start: 35 @29369 has 50 MA's), (47, 29423), (50, 29459), (51, 29486), (57, 29531), (58, 29534), (63, 29579), (82, 29735), (87, 29771), (90, 29780), (91, 29783), (114, 29912), (118, 29927), (144, 30032), (154, 30074),

Gene: Commandaria_66 Start: 52055, Stop: 51243, Start Num: 26

Candidate Starts for Commandaria_66:

(Start: 26 @52055 has 1 MA's), (47, 51968), (51, 51908), (59, 51851), (60, 51842), (89, 51608), (92, 51599), (97, 51575), (99, 51566), (104, 51548), (118, 51458), (125, 51440), (129, 51425), (130, 51419), (134, 51395),

Gene: CoolCookie_45 Start: 30174, Stop: 31022, Start Num: 35

Candidate Starts for CoolCookie_45:

(6, 29748), (10, 29778), (14, 29910), (Start: 35 @30174 has 50 MA's), (47, 30228), (50, 30264), (51, 30291), (57, 30336), (58, 30339), (63, 30384), (82, 30540), (87, 30576), (90, 30585), (91, 30588), (114, 30717), (118, 30732), (144, 30837), (154, 30879),

Gene: Crestdrop_45 Start: 29400, Stop: 30245, Start Num: 35

Candidate Starts for Crestdrop_45:

(2, 28890), (3, 28896), (4, 28923), (6, 28974), (10, 29004), (14, 29136), (Start: 35 @29400 has 50 MA's), (47, 29454), (50, 29490), (51, 29517), (57, 29562), (58, 29565), (63, 29610), (82, 29766), (87, 29802), (90, 29811), (91, 29814), (114, 29943), (118, 29958), (144, 30063), (154, 30105),

Gene: Cruella_52 Start: 45078, Stop: 44314, Start Num: 32

Candidate Starts for Cruella_52:

(Start: 32 @45078 has 8 MA's), (61, 44886), (63, 44859), (75, 44784), (110, 44577), (118, 44523), (133, 44478), (150, 44394),

Gene: Cuke_77 Start: 46278, Stop: 47102, Start Num: 29

Candidate Starts for Cuke_77:

(Start: 29 @46278 has 2 MA's), (Start: 33 @46290 has 1 MA's), (Start: 37 @46302 has 1 MA's), (38, 46305), (50, 46389), (51, 46413), (57, 46458), (58, 46461), (69, 46539), (73, 46578), (78, 46611), (80, 46632), (81, 46635), (87, 46701), (89, 46707), (98, 46746), (102, 46761), (116, 46848), (118, 46857), (121, 46875), (131, 46914), (138, 46941), (142, 46971), (143, 46980), (151, 47004), (159, 47055),

Gene: Cybele_45 Start: 30144, Stop: 30992, Start Num: 35

Candidate Starts for Cybele_45:

(6, 29718), (10, 29748), (14, 29880), (Start: 35 @30144 has 50 MA's), (47, 30198), (50, 30234), (51, 30261), (57, 30306), (58, 30309), (63, 30354), (82, 30510), (87, 30546), (90, 30555), (91, 30558), (114, 30687), (118, 30702), (144, 30807), (154, 30849),

Gene: Dalilpop_69 Start: 52942, Stop: 52163, Start Num: 25

Candidate Starts for Dalilpop_69:

(Start: 25 @52942 has 11 MA's), (47, 52855), (86, 52516), (89, 52507), (96, 52480), (97, 52474), (104, 52447), (110, 52417), (118, 52363), (119, 52357), (125, 52345), (135, 52303), (141, 52267),

Gene: Damien_72 Start: 52565, Stop: 53644, Start Num: 36

Candidate Starts for Damien_72:

(Start: 36 @52565 has 9 MA's), (38, 52571), (40, 52583), (47, 52619), (58, 52727), (64, 52775), (67, 52796), (68, 52802), (75, 52862), (76, 52871), (78, 52877), (91, 52979), (98, 53012), (102, 53027), (109, 53066), (113, 53105), (118, 53123), (121, 53141), (122, 53144), (124, 53153), (136, 53219), (139, 53243), (162, 53435), (164, 53582), (165, 53585), (166, 53624), (167, 53633),

Gene: DannyDe_45 Start: 29375, Stop: 30220, Start Num: 35

Candidate Starts for DannyDe_45:

(1, 28814), (5, 28910), (6, 28949), (7, 28955), (10, 28979), (13, 29075), (14, 29111), (Start: 35 @29375 has 50 MA's), (47, 29429), (50, 29465), (51, 29492), (57, 29537), (58, 29540), (63, 29585), (82, 29741), (87, 29777), (90, 29786), (91, 29789), (114, 29918), (118, 29933), (144, 30038), (154, 30080),

Gene: Darwin_56 Start: 44559, Stop: 43795, Start Num: 32

Candidate Starts for Darwin_56:

(Start: 32 @44559 has 8 MA's), (63, 44340), (73, 44283), (110, 44058), (118, 44004), (133, 43959), (150, 43875),

Gene: Dauntless_44 Start: 29727, Stop: 30572, Start Num: 35

Candidate Starts for Dauntless_44:

(6, 29301), (10, 29331), (11, 29358), (13, 29427), (14, 29463), (Start: 35 @29727 has 50 MA's), (47, 29781), (50, 29817), (51, 29844), (57, 29889), (58, 29892), (63, 29937), (82, 30093), (87, 30129), (90, 30138), (91, 30141), (114, 30270), (118, 30285), (144, 30390), (154, 30432),

Gene: Dryad_68 Start: 46911, Stop: 46123, Start Num: 35

Candidate Starts for Dryad_68:

(Start: 35 @46911 has 50 MA's), (41, 46884), (46, 46857), (49, 46848), (50, 46821), (51, 46797), (52, 46794), (74, 46635), (84, 46545), (85, 46539), (93, 46500), (97, 46479), (118, 46362), (119, 46356), (128, 46338), (134, 46311), (147, 46239),

Gene: Emianna_65 Start: 52042, Stop: 51221, Start Num: 28

Candidate Starts for Emianna_65:

(23, 52069), (Start: 28 @52042 has 26 MA's), (47, 51970), (71, 51748), (89, 51607), (92, 51598), (104, 51547), (110, 51511), (118, 51457), (125, 51439), (129, 51424), (152, 51301),

Gene: Ennea_72 Start: 53024, Stop: 52245, Start Num: 25

Candidate Starts for Ennea_72:

(Start: 25 @53024 has 11 MA's), (47, 52940), (89, 52592), (104, 52532), (110, 52496), (118, 52442), (125, 52424), (132, 52391), (135, 52382), (148, 52307), (152, 52295),

Gene: Erudite_44 Start: 29727, Stop: 30572, Start Num: 35

Candidate Starts for Erudite_44:

(6, 29301), (10, 29331), (11, 29358), (13, 29427), (14, 29463), (Start: 35 @29727 has 50 MA's), (47, 29781), (50, 29817), (51, 29844), (57, 29889), (58, 29892), (63, 29937), (82, 30093), (87, 30129), (90, 30138), (91, 30141), (114, 30270), (118, 30285), (144, 30390), (154, 30432),

Gene: Flapper_68 Start: 52133, Stop: 51354, Start Num: 25

Candidate Starts for Flapper_68:

(Start: 25 @52133 has 11 MA's), (47, 52046), (53, 51983), (86, 51707), (89, 51698), (97, 51665), (104, 51638), (110, 51608), (118, 51554), (119, 51548), (125, 51536), (126, 51530), (135, 51494), (141, 51458),

Gene: Float294_66 Start: 52739, Stop: 51960, Start Num: 25

Candidate Starts for Float294_66:

(Start: 25 @52739 has 11 MA's), (47, 52655), (55, 52580), (89, 52307), (104, 52247), (110, 52211), (118, 52157), (125, 52139), (132, 52106), (135, 52097), (148, 52022), (152, 52010),

Gene: FountainFog_44 Start: 29411, Stop: 30256, Start Num: 35

Candidate Starts for FountainFog_44:

(1, 28850), (5, 28946), (6, 28985), (10, 29015), (13, 29111), (14, 29147), (Start: 35 @29411 has 50 MA's), (47, 29465), (50, 29501), (51, 29528), (57, 29573), (58, 29576), (63, 29621), (82, 29777), (87, 29813), (90, 29822), (91, 29825), (114, 29954), (118, 29969), (144, 30074), (154, 30116),

Gene: Fowlmouth_78 Start: 48807, Stop: 49670, Start Num: 22

Candidate Starts for Fowlmouth_78:

(Start: 22 @48807 has 2 MA's), (52, 48993), (57, 49035), (58, 49038), (69, 49116), (70, 49146), (78, 49188), (79, 49200), (81, 49212), (86, 49275), (89, 49284), (98, 49323), (116, 49425), (118, 49434), (131, 49491), (142, 49548), (143, 49557), (151, 49581), (159, 49632),

Gene: Foxboro_66 Start: 52567, Stop: 51746, Start Num: 28

Candidate Starts for Foxboro_66:

(23, 52594), (Start: 28 @52567 has 26 MA's), (47, 52495), (71, 52273), (89, 52132), (92, 52123), (104, 52072), (110, 52036), (118, 51982), (125, 51964), (129, 51949),

Gene: FreddieHg_45 Start: 29385, Stop: 30230, Start Num: 35

Candidate Starts for FreddieHg_45:

(1, 28824), (5, 28920), (6, 28959), (7, 28965), (10, 28989), (13, 29085), (14, 29121), (Start: 35 @29385 has 50 MA's), (47, 29439), (50, 29475), (51, 29502), (57, 29547), (58, 29550), (63, 29595), (82, 29751), (87, 29787), (90, 29796), (91, 29799), (114, 29928), (118, 29943), (144, 30048), (154, 30090),

Gene: Fury_74 Start: 51253, Stop: 50462, Start Num: 25

Candidate Starts for Fury_74:

(Start: 25 @51253 has 11 MA's), (47, 51157), (75, 50923), (89, 50812), (92, 50803), (96, 50785), (98, 50773), (104, 50752), (118, 50662), (125, 50644), (129, 50629), (140, 50569),

Gene: GRU1_54 Start: 43981, Stop: 43202, Start Num: 25

Candidate Starts for GRU1_54:

(Start: 25 @43981 has 11 MA's), (47, 43894), (86, 43555), (89, 43546), (97, 43513), (104, 43486), (110, 43456), (118, 43402), (119, 43396), (125, 43384), (129, 43369), (135, 43342), (141, 43306),

Gene: GTE5_54 Start: 45013, Stop: 44234, Start Num: 25

Candidate Starts for GTE5_54:

(Start: 25 @45013 has 11 MA's), (47, 44926), (86, 44587), (89, 44578), (97, 44545), (104, 44518), (110, 44488), (118, 44434), (119, 44428), (125, 44416), (135, 44374), (141, 44338),

Gene: GTE8_54 Start: 45279, Stop: 44458, Start Num: 28

Candidate Starts for GTE8_54:

(23, 45306), (Start: 28 @45279 has 26 MA's), (47, 45207), (71, 44985), (89, 44844), (92, 44835), (104, 44784), (110, 44748), (118, 44694), (125, 44676), (129, 44661), (153, 44535),

Gene: Gibson_64 Start: 46180, Stop: 45395, Start Num: 35

Candidate Starts for Gibson_64:

(Start: 35 @46180 has 50 MA's), (46, 46126), (49, 46117), (50, 46090), (51, 46066), (58, 46018), (73, 45913), (84, 45814), (85, 45808), (93, 45769), (97, 45748), (111, 45676), (118, 45631), (119, 45625), (128, 45607), (134, 45580), (147, 45508),

Gene: Gilda_45 Start: 30168, Stop: 31013, Start Num: 35

Candidate Starts for Gilda_45:

(6, 29742), (10, 29772), (14, 29904), (Start: 35 @30168 has 50 MA's), (47, 30222), (50, 30258), (51, 30285), (57, 30330), (58, 30333), (63, 30378), (82, 30534), (87, 30570), (90, 30579), (91, 30582), (114, 30711), (118, 30726), (144, 30831), (154, 30873),

Gene: Greenbelt_62 Start: 42280, Stop: 41495, Start Num: 35

Candidate Starts for Greenbelt_62:

(Start: 35 @42280 has 50 MA's), (46, 42226), (48, 42220), (50, 42190), (54, 42154), (93, 41869), (97, 41848), (104, 41821), (118, 41731), (119, 41725), (128, 41707), (137, 41671), (147, 41608), (155, 41581),

Gene: GrootJr_67 Start: 51436, Stop: 50615, Start Num: 28

Candidate Starts for GrootJr_67:

(23, 51463), (Start: 28 @51436 has 26 MA's), (47, 51364), (71, 51142), (89, 51001), (92, 50992), (104, 50941), (110, 50905), (118, 50851), (125, 50833), (129, 50818), (152, 50695),

Gene: Hager_46 Start: 29593, Stop: 30441, Start Num: 35

Candidate Starts for Hager_46:

(7, 29173), (8, 29188), (9, 29191), (10, 29197), (Start: 35 @29593 has 50 MA's), (44, 29635), (47, 29647), (50, 29683), (51, 29710), (57, 29755), (58, 29758), (63, 29803), (82, 29959), (87, 29995), (90, 30004), (91, 30007), (98, 30040), (114, 30136), (118, 30151), (144, 30256), (154, 30298),

Gene: Haunter_45 Start: 29551, Stop: 30396, Start Num: 35

Candidate Starts for Haunter_45:

(6, 29125), (10, 29155), (11, 29182), (13, 29251), (14, 29287), (Start: 35 @29551 has 50 MA's), (47, 29605), (50, 29641), (51, 29668), (57, 29713), (58, 29716), (63, 29761), (82, 29917), (87, 29953), (90, 29962), (91, 29965), (114, 30094), (118, 30109), (144, 30214), (146, 30220), (154, 30256),

Gene: Hiddenleaf_45 Start: 29369, Stop: 30214, Start Num: 35

Candidate Starts for Hiddenleaf_45:

(1, 28808), (5, 28904), (6, 28943), (7, 28949), (10, 28973), (13, 29069), (14, 29105), (Start: 35 @29369 has 50 MA's), (47, 29423), (50, 29459), (51, 29486), (57, 29531), (58, 29534), (63, 29579), (82, 29735), (87, 29771), (90, 29780), (91, 29783), (114, 29912), (118, 29927), (144, 30032), (154, 30074),

Gene: HomeFry_71 Start: 49956, Stop: 49168, Start Num: 25

Candidate Starts for HomeFry_71:

(Start: 25 @49956 has 11 MA's), (27, 49944), (47, 49860), (63, 49713), (75, 49626), (86, 49524), (97, 49482), (98, 49476), (104, 49455), (118, 49365), (125, 49347), (129, 49332), (140, 49272),

Gene: HubbaBubba_60 Start: 46888, Stop: 46091, Start Num: 28

Candidate Starts for HubbaBubba_60:

(Start: 28 @46888 has 26 MA's), (47, 46813), (83, 46507), (86, 46477), (89, 46468), (92, 46459), (104, 46405), (111, 46360), (112, 46339), (115, 46327), (118, 46315), (125, 46297), (140, 46216), (158, 46138),

Gene: IDyn_64 Start: 48323, Stop: 47526, Start Num: 28

Candidate Starts for IDyn_64:

(23, 48350), (Start: 28 @48323 has 26 MA's), (47, 48248), (67, 48074), (83, 47942), (86, 47912), (89, 47903), (92, 47894), (104, 47840), (111, 47795), (112, 47774), (115, 47762), (118, 47750), (125, 47732), (140, 47651), (158, 47573),

Gene: Indlulamithi_69 Start: 49597, Stop: 50433, Start Num: 29

Candidate Starts for Indlulamithi_69:

(Start: 29 @49597 has 2 MA's), (38, 49612), (73, 49894), (78, 49930), (79, 49942), (80, 49951), (81, 49954), (88, 50023), (89, 50026), (97, 50059), (98, 50065), (104, 50086), (105, 50089), (112, 50152), (117, 50173), (118, 50176), (121, 50194), (126, 50212), (139, 50281), (143, 50302), (152, 50329), (159, 50377), (161, 50398),

Gene: JDawG_44 Start: 29786, Stop: 30631, Start Num: 35

Candidate Starts for JDawG_44:

(1, 29225), (5, 29321), (6, 29360), (13, 29486), (14, 29522), (Start: 35 @29786 has 50 MA's), (47, 29840), (50, 29876), (51, 29903), (57, 29948), (58, 29951), (63, 29996), (82, 30152), (87, 30188), (90, 30197), (91, 30200), (114, 30329), (118, 30344), (144, 30449), (154, 30491),

Gene: Jifall16_64 Start: 51698, Stop: 50877, Start Num: 28

Candidate Starts for Jifall16_64:

(Start: 28 @51698 has 26 MA's), (47, 51626), (71, 51404), (89, 51263), (92, 51254), (104, 51203), (110, 51167), (118, 51113), (125, 51095), (129, 51080), (152, 50957),

Gene: JingleBells_45 Start: 29520, Stop: 30365, Start Num: 35

Candidate Starts for JingleBells_45:

(6, 29094), (7, 29100), (10, 29124), (13, 29220), (14, 29256), (Start: 35 @29520 has 50 MA's), (47, 29574), (50, 29610), (51, 29637), (57, 29682), (58, 29685), (63, 29730), (82, 29886), (87, 29922), (90, 29931), (91, 29934), (114, 30063), (118, 30078), (144, 30183), (154, 30225),

Gene: Kabluna_68 Start: 51031, Stop: 50168, Start Num: 28

Candidate Starts for Kabluna_68:

(20, 51109), (Start: 28 @51031 has 26 MA's), (56, 50869), (71, 50743), (89, 50602), (97, 50569), (104, 50542), (112, 50476), (118, 50452), (125, 50434), (136, 50380), (141, 50350), (150, 50305),

Gene: Karate_44 Start: 30169, Stop: 31014, Start Num: 35

Candidate Starts for Karate_44:

(5, 29704), (6, 29743), (10, 29773), (14, 29905), (Start: 35 @30169 has 50 MA's), (47, 30223), (50, 30259), (51, 30286), (57, 30331), (58, 30334), (63, 30379), (82, 30535), (87, 30571), (90, 30580), (91, 30583), (114, 30712), (118, 30727), (144, 30832), (154, 30874),

Gene: Kate_46 Start: 30176, Stop: 31024, Start Num: 35

Candidate Starts for Kate_46:

(6, 29750), (10, 29780), (14, 29912), (Start: 35 @30176 has 50 MA's), (47, 30230), (50, 30266), (51, 30293), (57, 30338), (58, 30341), (63, 30386), (82, 30542), (87, 30578), (90, 30587), (91, 30590), (114, 30719), (118, 30734), (144, 30839), (154, 30881),

Gene: KidneyBean_65 Start: 51822, Stop: 51001, Start Num: 28

Candidate Starts for KidneyBean_65:

(Start: 28 @51822 has 26 MA's), (47, 51750), (71, 51528), (89, 51387), (92, 51378), (104, 51327), (110, 51291), (118, 51237), (125, 51219), (129, 51204), (152, 51081),

Gene: Kimchi1738_53 Start: 45055, Stop: 44291, Start Num: 32

Candidate Starts for Kimchi1738_53:

(Start: 32 @45055 has 8 MA's), (63, 44836), (110, 44554), (118, 44500), (133, 44455), (150, 44371),

Gene: Konstantine_76 Start: 53396, Stop: 54475, Start Num: 36

Candidate Starts for Konstantine_76:

(Start: 36 @53396 has 9 MA's), (40, 53414), (47, 53450), (58, 53558), (64, 53606), (67, 53627), (68, 53633), (75, 53693), (76, 53702), (78, 53708), (91, 53810), (98, 53843), (102, 53858), (109, 53897), (113, 53936), (118, 53954), (121, 53972), (122, 53975), (124, 53984), (136, 54050), (139, 54074), (162, 54266), (164, 54413), (165, 54416), (166, 54455), (167, 54464),

Gene: Kors_49 Start: 31190, Stop: 32032, Start Num: 35

Candidate Starts for Kors_49:

(Start: 35 @31190 has 50 MA's), (49, 31253), (56, 31337), (57, 31349), (58, 31352), (80, 31514), (87, 31586), (103, 31649), (106, 31658), (114, 31727), (118, 31742), (154, 31889),

Gene: Krampus_45 Start: 30176, Stop: 31024, Start Num: 35

Candidate Starts for Krampus_45:

(6, 29750), (10, 29780), (14, 29912), (Start: 35 @30176 has 50 MA's), (47, 30230), (50, 30266), (51, 30293), (57, 30338), (58, 30341), (63, 30386), (82, 30542), (87, 30578), (90, 30587), (91, 30590), (114, 30719), (118, 30734), (144, 30839), (154, 30881),

Gene: Kurt_65 Start: 52057, Stop: 51236, Start Num: 28

Candidate Starts for Kurt_65:

(23, 52084), (Start: 28 @52057 has 26 MA's), (47, 51985), (71, 51763), (89, 51622), (92, 51613), (104, 51562), (110, 51526), (118, 51472), (125, 51454), (129, 51439), (152, 51316),

Gene: Lizz_64 Start: 46003, Stop: 45221, Start Num: 35

Candidate Starts for Lizz_64:

(Start: 35 @46003 has 50 MA's), (46, 45949), (49, 45940), (50, 45913), (51, 45889), (58, 45841), (73, 45736), (84, 45637), (85, 45631), (93, 45592), (97, 45571), (111, 45499), (118, 45454), (119, 45448), (128, 45430), (137, 45394), (147, 45331),

Gene: Lollipop1437_69 Start: 52704, Stop: 51925, Start Num: 25

Candidate Starts for Lollipop1437_69:

(Start: 25 @52704 has 11 MA's), (47, 52620), (89, 52272), (104, 52212), (110, 52176), (118, 52122), (125, 52104), (132, 52071), (135, 52062), (148, 51987), (152, 51975),

Gene: LordBart_49 Start: 31099, Stop: 31941, Start Num: 35

Candidate Starts for LordBart_49:

(Start: 35 @31099 has 50 MA's), (49, 31162), (56, 31246), (57, 31258), (58, 31261), (80, 31423), (82, 31459), (87, 31495), (103, 31558), (106, 31567), (114, 31636), (118, 31651), (154, 31798),

Gene: MacGully_73 Start: 51597, Stop: 50779, Start Num: 33

Candidate Starts for MacGully_73:

(16, 51750), (21, 51672), (Start: 33 @51597 has 1 MA's), (Start: 35 @51591 has 50 MA's), (47, 51537), (61, 51411), (75, 51294), (79, 51267), (81, 51255), (83, 51216), (87, 51183), (101, 51126), (125, 51003), (134, 50958), (160, 50805),

Gene: Marietta_66 Start: 48435, Stop: 47638, Start Num: 28

Candidate Starts for Marietta_66:

(Start: 28 @48435 has 26 MA's), (47, 48360), (67, 48186), (83, 48054), (86, 48024), (89, 48015), (92, 48006), (97, 47979), (104, 47952), (111, 47907), (115, 47874), (118, 47862), (125, 47844), (140, 47763), (158, 47685),

Gene: Megatron06_73 Start: 53142, Stop: 54218, Start Num: 36

Candidate Starts for Megatron06_73:

(Start: 36 @53142 has 9 MA's), (38, 53148), (40, 53160), (47, 53196), (58, 53304), (64, 53352), (69, 53382), (75, 53439), (76, 53448), (78, 53454), (91, 53556), (98, 53589), (102, 53604), (109, 53643), (113, 53682), (118, 53700), (121, 53718), (122, 53721), (124, 53730), (136, 53796), (139, 53820), (162, 54009), (164, 54156), (165, 54159), (166, 54198), (167, 54207),

Gene: MerCougar_67 Start: 52388, Stop: 51525, Start Num: 28

Candidate Starts for MerCougar_67:

(Start: 28 @52388 has 26 MA's), (71, 52100), (79, 52049), (89, 51959), (99, 51917), (104, 51899), (110, 51863), (112, 51833), (118, 51809), (125, 51791),

Gene: MontyDev_72 Start: 52628, Stop: 53458, Start Num: 30

Candidate Starts for MontyDev_72:

(Start: 30 @52628 has 9 MA's), (42, 52673), (48, 52703), (50, 52736), (51, 52760), (58, 52808), (62, 52829), (72, 52922), (76, 52952), (77, 52955), (79, 52967), (91, 53051), (100, 53081), (113, 53165), (115, 53171), (118, 53183), (121, 53201), (127, 53228), (128, 53231), (145, 53327), (149, 53348), (157, 53375),

Gene: MortySmith_43 Start: 29204, Stop: 30049, Start Num: 35

Candidate Starts for MortySmith_43:

(6, 28778), (10, 28808), (11, 28835), (13, 28904), (14, 28940), (Start: 35 @29204 has 50 MA's), (47, 29258), (50, 29294), (51, 29321), (57, 29366), (58, 29369), (63, 29414), (82, 29570), (87, 29606), (90, 29615), (91, 29618), (114, 29747), (118, 29762), (144, 29867), (154, 29909),

Gene: MrMiyagi_77 Start: 49209, Stop: 50072, Start Num: 22

Candidate Starts for MrMiyagi_77:

(Start: 22 @49209 has 2 MA's), (52, 49395), (57, 49437), (58, 49440), (69, 49518), (70, 49548), (78, 49590), (81, 49614), (86, 49677), (89, 49686), (95, 49704), (98, 49725), (116, 49827), (118, 49836), (123, 49860), (131, 49893), (138, 49920), (142, 49950), (143, 49959), (151, 49983), (159, 50034),

Gene: NadineRae_65 Start: 48044, Stop: 47247, Start Num: 28

Candidate Starts for NadineRae_65:

(Start: 28 @48044 has 26 MA's), (47, 47969), (83, 47663), (86, 47633), (89, 47624), (92, 47615), (104, 47561), (111, 47516), (112, 47495), (115, 47483), (118, 47471), (125, 47453), (140, 47372), (158, 47294),

Gene: NarutoRun_45 Start: 30144, Stop: 30992, Start Num: 35

Candidate Starts for NarutoRun_45:

(6, 29718), (10, 29748), (14, 29880), (Start: 35 @30144 has 50 MA's), (47, 30198), (50, 30234), (51, 30261), (57, 30306), (58, 30309), (63, 30354), (82, 30510), (87, 30546), (90, 30555), (91, 30558), (114, 30687), (118, 30702), (144, 30807), (154, 30849),

Gene: NatB6_65 Start: 51126, Stop: 50305, Start Num: 28

Candidate Starts for NatB6_65:

(23, 51153), (Start: 28 @51126 has 26 MA's), (47, 51054), (71, 50832), (89, 50691), (92, 50682), (104, 50631), (110, 50595), (118, 50541), (125, 50523), (129, 50508), (152, 50385),

Gene: Neptune_45 Start: 30144, Stop: 30992, Start Num: 35

Candidate Starts for Neptune_45:

(6, 29718), (10, 29748), (14, 29880), (Start: 35 @30144 has 50 MA's), (47, 30198), (50, 30234), (51, 30261), (57, 30306), (58, 30309), (63, 30354), (82, 30510), (87, 30546), (90, 30555), (91, 30558), (114, 30687), (118, 30702), (144, 30807), (154, 30849),

Gene: Nilo_72 Start: 52985, Stop: 53815, Start Num: 30

Candidate Starts for Nilo_72:

(Start: 30 @52985 has 9 MA's), (42, 53030), (48, 53060), (50, 53093), (51, 53117), (58, 53165), (62, 53186), (72, 53279), (76, 53309), (77, 53312), (79, 53324), (91, 53408), (100, 53438), (113, 53522), (115, 53528), (118, 53540), (121, 53558), (127, 53585), (128, 53588), (145, 53684), (149, 53705), (157, 53732),

Gene: NosilaM_67 Start: 51702, Stop: 50839, Start Num: 28

Candidate Starts for NosilaM_67:

(Start: 28 @51702 has 26 MA's), (56, 51540), (71, 51414), (89, 51273), (97, 51240), (104, 51213), (106, 51207), (112, 51147), (118, 51123), (125, 51105), (136, 51051), (141, 51021), (150, 50976),

Gene: NovumRegina_65 Start: 51435, Stop: 50614, Start Num: 28

Candidate Starts for NovumRegina_65:

(23, 51462), (Start: 28 @51435 has 26 MA's), (47, 51363), (71, 51141), (89, 51000), (92, 50991), (104, 50940), (110, 50904), (118, 50850), (125, 50832), (129, 50817), (152, 50694),

Gene: Oaker_72 Start: 53171, Stop: 54247, Start Num: 36

Candidate Starts for Oaker_72:

(Start: 36 @53171 has 9 MA's), (38, 53177), (47, 53225), (58, 53333), (64, 53381), (69, 53411), (75, 53468), (76, 53477), (78, 53483), (91, 53585), (98, 53618), (102, 53633), (109, 53672), (113, 53711), (118, 53729), (121, 53747), (122, 53750), (124, 53759), (136, 53825), (139, 53849), (162, 54038), (164, 54185), (165, 54188), (166, 54227), (167, 54236),

Gene: OhDear_45 Start: 30142, Stop: 30990, Start Num: 35

Candidate Starts for OhDear_45:

(6, 29716), (10, 29746), (14, 29878), (Start: 35 @30142 has 50 MA's), (47, 30196), (50, 30232), (51, 30259), (57, 30304), (58, 30307), (63, 30352), (82, 30508), (87, 30544), (90, 30553), (91, 30556), (114, 30685), (118, 30700), (144, 30805), (154, 30847),

Gene: Outis_66 Start: 51894, Stop: 51040, Start Num: 31

Candidate Starts for Outis_66:

(Start: 31 @51894 has 2 MA's), (71, 51615), (79, 51564), (89, 51474), (99, 51432), (104, 51414), (110, 51378), (112, 51348), (118, 51324), (125, 51306),

Gene: OverHedge_45 Start: 30134, Stop: 30982, Start Num: 35

Candidate Starts for OverHedge_45:

(6, 29708), (10, 29738), (14, 29870), (Start: 35 @30134 has 50 MA's), (47, 30188), (50, 30224), (51, 30251), (57, 30296), (58, 30299), (63, 30344), (82, 30500), (87, 30536), (90, 30545), (91, 30548), (114, 30677), (118, 30692), (144, 30797), (154, 30839),

Gene: P1201_70 Start: 52915, Stop: 52136, Start Num: 34

Candidate Starts for P1201_70:

(34, 52915), (47, 52858), (48, 52855), (65, 52684), (75, 52621), (102, 52456), (111, 52405), (118, 52360), (119, 52354), (128, 52336),

Gene: PHTowN_64 Start: 46001, Stop: 45219, Start Num: 35

Candidate Starts for PHTowN_64:

(Start: 35 @46001 has 50 MA's), (46, 45947), (49, 45938), (50, 45911), (51, 45887), (58, 45839), (73, 45734), (84, 45635), (85, 45629), (93, 45590), (97, 45569), (111, 45497), (118, 45452), (119, 45446), (128, 45428), (137, 45392), (147, 45329),

Gene: Papyrus_70 Start: 52595, Stop: 53425, Start Num: 30

Candidate Starts for Papyrus_70:

(Start: 30 @52595 has 9 MA's), (42, 52640), (48, 52670), (50, 52703), (51, 52727), (58, 52775), (62, 52796), (72, 52889), (76, 52919), (77, 52922), (79, 52934), (91, 53018), (100, 53048), (113, 53132), (115, 53138), (118, 53150), (121, 53168), (127, 53195), (128, 53198), (145, 53294), (149, 53315), (157, 53342),

Gene: Patio_67 Start: 51761, Stop: 50982, Start Num: 25

Candidate Starts for Patio_67:

(Start: 25 @51761 has 11 MA's), (47, 51677), (89, 51329), (104, 51269), (110, 51233), (118, 51179), (125, 51161), (132, 51128), (135, 51119), (148, 51044), (152, 51032),

Gene: Pemberton_68 Start: 48797, Stop: 48000, Start Num: 28

Candidate Starts for Pemberton_68:

(18, 48896), (23, 48824), (Start: 28 @48797 has 26 MA's), (47, 48722), (67, 48548), (83, 48416), (86, 48386), (89, 48377), (92, 48368), (97, 48341), (104, 48314), (111, 48269), (115, 48236), (118, 48224), (125, 48206), (140, 48125), (158, 48047),

Gene: PeteyPab_53 Start: 45339, Stop: 44575, Start Num: 32

Candidate Starts for PeteyPab_53:

(Start: 32 @45339 has 8 MA's), (63, 45120), (75, 45045), (110, 44838), (118, 44784), (133, 44739), (150, 44655),

Gene: Pharpay_45 Start: 30189, Stop: 31037, Start Num: 35

Candidate Starts for Pharpay_45:

(6, 29763), (10, 29793), (14, 29925), (Start: 35 @30189 has 50 MA's), (47, 30243), (50, 30279), (51, 30306), (57, 30351), (58, 30354), (63, 30399), (82, 30555), (87, 30591), (90, 30600), (91, 30603), (114, 30732), (118, 30747), (144, 30852), (154, 30894),

Gene: Phomeo_64 Start: 51694, Stop: 50873, Start Num: 28

Candidate Starts for Phomeo_64:

(Start: 28 @51694 has 26 MA's), (47, 51622), (71, 51400), (89, 51259), (92, 51250), (104, 51199), (110, 51163), (118, 51109), (125, 51091), (129, 51076), (152, 50953),

Gene: Phreeze_71 Start: 52138, Stop: 53217, Start Num: 36

Candidate Starts for Phreeze_71:

(Start: 36 @52138 has 9 MA's), (38, 52144), (47, 52192), (58, 52300), (64, 52348), (69, 52378), (75, 52435), (76, 52444), (78, 52450), (91, 52552), (98, 52585), (102, 52600), (109, 52639), (113, 52678), (118, 52696), (121, 52714), (122, 52717), (124, 52726), (136, 52792), (139, 52816), (162, 53008), (164, 53155), (165, 53158), (166, 53197), (167, 53206),

Gene: PhunaPhoke_45 Start: 30162, Stop: 31010, Start Num: 35

Candidate Starts for PhunaPhoke_45:

(6, 29736), (10, 29766), (14, 29898), (Start: 35 @30162 has 50 MA's), (47, 30216), (50, 30252), (51, 30279), (57, 30324), (58, 30327), (63, 30372), (82, 30528), (87, 30564), (90, 30573), (91, 30576), (114, 30705), (118, 30720), (144, 30825), (154, 30867),

Gene: Pleakley_74 Start: 51254, Stop: 50463, Start Num: 25

Candidate Starts for Pleakley_74:

(Start: 25 @51254 has 11 MA's), (47, 51158), (75, 50924), (89, 50813), (92, 50804), (96, 50786), (98, 50774), (104, 50753), (118, 50663), (125, 50645), (129, 50630), (140, 50570),

Gene: PotatoChip_54 Start: 45341, Stop: 44577, Start Num: 32

Candidate Starts for PotatoChip_54:

(Start: 32 @45341 has 8 MA's), (63, 45122), (75, 45047), (110, 44840), (118, 44786), (133, 44741), (150, 44657),

Gene: Potty_45 Start: 30167, Stop: 31015, Start Num: 35

Candidate Starts for Potty_45:

(6, 29741), (10, 29771), (14, 29903), (Start: 35 @30167 has 50 MA's), (47, 30221), (50, 30257), (51, 30284), (57, 30329), (58, 30332), (63, 30377), (82, 30533), (87, 30569), (90, 30578), (91, 30581), (114, 30710), (118, 30725), (144, 30830), (154, 30872),

Gene: Poultruss_44 Start: 30482, Stop: 31330, Start Num: 35

Candidate Starts for Poultruss_44:

(1, 29921), (5, 30017), (6, 30056), (10, 30086), (13, 30182), (14, 30218), (Start: 35 @30482 has 50 MA's), (47, 30536), (50, 30572), (51, 30599), (57, 30644), (58, 30647), (63, 30692), (82, 30848), (87, 30884), (90, 30893), (91, 30896), (114, 31025), (118, 31040), (144, 31145), (154, 31187),

Gene: Puissant_73 Start: 52254, Stop: 53387, Start Num: 36

Candidate Starts for Puissant_73:

(Start: 36 @52254 has 9 MA's), (38, 52260), (47, 52308), (58, 52416), (64, 52464), (69, 52494), (75, 52551), (76, 52560), (78, 52566), (91, 52668), (98, 52701), (102, 52716), (109, 52755), (113, 52794), (118, 52812), (121, 52830), (122, 52833), (124, 52842), (136, 52908), (139, 52932), (163, 53289), (166, 53367),

Gene: Rachella_45 Start: 30170, Stop: 31018, Start Num: 35

Candidate Starts for Rachella_45:

(6, 29744), (10, 29774), (14, 29906), (Start: 35 @30170 has 50 MA's), (47, 30224), (50, 30260), (51, 30287), (57, 30332), (58, 30335), (63, 30380), (82, 30536), (87, 30572), (90, 30581), (91, 30584), (114, 30713), (118, 30728), (144, 30833), (154, 30875),

Gene: RedRaider_72 Start: 54080, Stop: 53301, Start Num: 25

Candidate Starts for RedRaider_72:

(Start: 25 @54080 has 11 MA's), (47, 53996), (66, 53831), (89, 53648), (104, 53588), (110, 53552), (118, 53498), (125, 53480), (132, 53447), (135, 53438), (148, 53363), (152, 53351),

Gene: Rie18_45 Start: 29667, Stop: 30512, Start Num: 35

Candidate Starts for Rie18_45:

(8, 29262), (10, 29271), (Start: 35 @29667 has 50 MA's), (44, 29709), (47, 29721), (50, 29757), (51, 29784), (57, 29829), (58, 29832), (63, 29877), (82, 30033), (87, 30069), (90, 30078), (91, 30081), (114, 30210), (118, 30225), (144, 30330), (154, 30372),

Gene: RikSengupta_49 Start: 31227, Stop: 32069, Start Num: 35

Candidate Starts for RikSengupta_49:

(15, 30993), (Start: 35 @31227 has 50 MA's), (49, 31290), (56, 31374), (57, 31386), (58, 31389), (80, 31551), (82, 31587), (87, 31623), (103, 31686), (106, 31695), (114, 31764), (118, 31779), (154, 31926),

Gene: Riparian_72 Start: 52432, Stop: 53262, Start Num: 30

Candidate Starts for Riparian_72:

(Start: 30 @52432 has 9 MA's), (42, 52477), (48, 52507), (50, 52540), (51, 52564), (58, 52612), (62, 52633), (72, 52726), (76, 52756), (77, 52759), (79, 52771), (91, 52855), (100, 52885), (113, 52969), (115, 52975), (118, 52987), (121, 53005), (127, 53032), (128, 53035), (145, 53131), (149, 53152), (157, 53179),

Gene: Rooney_64 Start: 46156, Stop: 45371, Start Num: 35

Candidate Starts for Rooney_64:

(Start: 35 @46156 has 50 MA's), (46, 46102), (49, 46093), (50, 46066), (51, 46042), (58, 45994), (73, 45889), (84, 45790), (85, 45784), (93, 45745), (97, 45724), (111, 45652), (118, 45607), (119, 45601), (128, 45583), (134, 45556), (147, 45484),

Gene: Rope_70 Start: 52588, Stop: 53418, Start Num: 30

Candidate Starts for Rope_70:

(Start: 30 @52588 has 9 MA's), (42, 52633), (48, 52663), (50, 52696), (51, 52720), (58, 52768), (62, 52789), (72, 52882), (76, 52912), (77, 52915), (79, 52927), (91, 53011), (100, 53041), (113, 53125), (115, 53131), (118, 53143), (121, 53161), (127, 53188), (128, 53191), (145, 53287), (149, 53308), (157, 53335),

Gene: SassyC_69 Start: 47080, Stop: 46298, Start Num: 35

Candidate Starts for SassyC_69:

(17, 47188), (24, 47116), (Start: 35 @47080 has 50 MA's), (41, 47053), (46, 47026), (49, 47017), (50, 46990), (51, 46966), (58, 46918), (84, 46714), (85, 46708), (93, 46669), (97, 46648), (104, 46621), (111, 46576), (118, 46531), (119, 46525), (128, 46507), (137, 46471),

Gene: Scuba_75 Start: 51339, Stop: 50548, Start Num: 25

Candidate Starts for Scuba_75:

(Start: 25 @51339 has 11 MA's), (47, 51243), (75, 51009), (89, 50898), (92, 50889), (98, 50859), (104, 50838), (118, 50748), (125, 50730), (129, 50715), (140, 50655),

Gene: Send513_70 Start: 52966, Stop: 53796, Start Num: 30

Candidate Starts for Send513_70:

(Start: 30 @52966 has 9 MA's), (42, 53011), (48, 53041), (50, 53074), (51, 53098), (58, 53146), (62, 53167), (72, 53260), (76, 53290), (77, 53293), (91, 53389), (100, 53419), (113, 53503), (115, 53509), (118, 53521), (121, 53539), (127, 53566), (128, 53569), (145, 53665), (149, 53686), (157, 53713),

Gene: ShakeNBake_64 Start: 46028, Stop: 45246, Start Num: 35

Candidate Starts for ShakeNBake_64:

(Start: 35 @46028 has 50 MA's), (46, 45974), (49, 45965), (50, 45938), (51, 45914), (58, 45866), (73, 45761), (84, 45662), (85, 45656), (93, 45617), (97, 45596), (111, 45524), (118, 45479), (119, 45473), (128, 45455), (137, 45419), (147, 45356),

Gene: SilentWarrior_45 Start: 29382, Stop: 30230, Start Num: 35

Candidate Starts for SilentWarrior_45:

(1, 28821), (5, 28917), (6, 28956), (10, 28986), (14, 29118), (Start: 35 @29382 has 50 MA's), (47, 29436), (50, 29472), (51, 29499), (57, 29544), (58, 29547), (63, 29592), (82, 29748), (87, 29784), (90, 29793), (91, 29796), (114, 29925), (118, 29940), (144, 30045), (154, 30087),

Gene: Skysand_67 Start: 52239, Stop: 51460, Start Num: 25

Candidate Starts for Skysand_67:

(Start: 25 @52239 has 11 MA's), (47, 52155), (55, 52080), (89, 51807), (104, 51747), (110, 51711), (118, 51657), (125, 51639), (132, 51606), (135, 51597), (148, 51522), (152, 51510),

Gene: Snakehole_45 Start: 29347, Stop: 30192, Start Num: 35

Candidate Starts for Snakehole_45:

(6, 28921), (7, 28927), (10, 28951), (14, 29083), (Start: 35 @29347 has 50 MA's), (47, 29401), (50, 29437), (51, 29464), (57, 29509), (58, 29512), (63, 29557), (82, 29713), (87, 29749), (90, 29758), (91, 29761), (114, 29890), (118, 29905), (144, 30010), (154, 30052),

Gene: Sparcetus_49 Start: 31104, Stop: 31946, Start Num: 35

Candidate Starts for Sparcetus_49:

(Start: 35 @31104 has 50 MA's), (49, 31167), (56, 31251), (57, 31263), (58, 31266), (80, 31428), (82, 31464), (87, 31500), (103, 31563), (106, 31572), (114, 31641), (118, 31656), (154, 31803),

Gene: StarStruck_66 Start: 51894, Stop: 51040, Start Num: 31

Candidate Starts for StarStruck_66:

(Start: 31 @51894 has 2 MA's), (71, 51615), (79, 51564), (89, 51474), (99, 51432), (104, 51414), (110, 51378), (112, 51348), (118, 51324), (125, 51306),

Gene: Stickynote_54 Start: 45345, Stop: 44581, Start Num: 32

Candidate Starts for Stickynote_54:

(Start: 32 @45345 has 8 MA's), (63, 45126), (110, 44844), (118, 44790), (133, 44745), (150, 44661),

Gene: Sukkupi_66 Start: 50275, Stop: 49478, Start Num: 28

Candidate Starts for Sukkupi_66:

(18, 50374), (23, 50302), (Start: 28 @50275 has 26 MA's), (47, 50200), (67, 50026), (83, 49894), (86, 49864), (89, 49855), (92, 49846), (97, 49819), (104, 49792), (111, 49747), (115, 49714), (118, 49702), (125, 49684), (140, 49603), (158, 49525),

Gene: SuperSulley_67 Start: 52253, Stop: 51390, Start Num: 28

Candidate Starts for SuperSulley_67:

(20, 52331), (Start: 28 @52253 has 26 MA's), (56, 52091), (71, 51965), (89, 51824), (97, 51791), (104, 51764), (106, 51758), (112, 51698), (118, 51674), (125, 51656), (136, 51602), (141, 51572), (150, 51527),

Gene: Tedro_45 Start: 29601, Stop: 30446, Start Num: 35

Candidate Starts for Tedro_45:

(6, 29175), (10, 29205), (13, 29301), (14, 29337), (Start: 35 @29601 has 50 MA's), (47, 29655), (50, 29691), (51, 29718), (57, 29763), (58, 29766), (63, 29811), (82, 29967), (87, 30003), (90, 30012), (91, 30015), (114, 30144), (118, 30159), (144, 30264), (154, 30306),

Gene: Thumb_73 Start: 52573, Stop: 53652, Start Num: 36

Candidate Starts for Thumb_73:

(Start: 36 @52573 has 9 MA's), (38, 52579), (47, 52627), (58, 52735), (64, 52783), (69, 52813), (75, 52870), (76, 52879), (78, 52885), (91, 52987), (98, 53020), (102, 53035), (109, 53074), (113, 53113),

(118, 53131), (121, 53149), (122, 53152), (124, 53161), (136, 53227), (139, 53251), (162, 53443), (164, 53590), (165, 53593), (166, 53632), (167, 53641),

Gene: TinyMiny_49 Start: 31125, Stop: 31967, Start Num: 35

Candidate Starts for TinyMiny_49:

(15, 30891), (Start: 35 @31125 has 50 MA's), (49, 31188), (56, 31272), (57, 31284), (58, 31287), (80, 31449), (82, 31485), (87, 31521), (103, 31584), (106, 31593), (114, 31662), (118, 31677), (154, 31824),

Gene: Tongui_45 Start: 29721, Stop: 30566, Start Num: 35

Candidate Starts for Tongui_45:

(8, 29316), (10, 29325), (12, 29382), (Start: 35 @29721 has 50 MA's), (47, 29775), (50, 29811), (51, 29838), (57, 29883), (58, 29886), (63, 29931), (82, 30087), (87, 30123), (90, 30132), (91, 30135), (114, 30264), (118, 30279), (128, 30303), (144, 30384), (154, 30426),

Gene: Tracker_65 Start: 50870, Stop: 50052, Start Num: 28

Candidate Starts for Tracker_65:

(23, 50897), (Start: 28 @50870 has 26 MA's), (47, 50798), (71, 50576), (89, 50435), (92, 50426), (104, 50375), (110, 50339), (118, 50285), (125, 50267), (129, 50252),

Gene: Turuncu_68 Start: 51816, Stop: 51037, Start Num: 25

Candidate Starts for Turuncu_68:

(Start: 25 @51816 has 11 MA's), (47, 51729), (86, 51390), (89, 51381), (97, 51348), (104, 51321), (110, 51291), (118, 51237), (119, 51231), (125, 51219), (126, 51213), (135, 51177), (141, 51141),

Gene: Virizion_69 Start: 46376, Stop: 45591, Start Num: 35

Candidate Starts for Virizion_69:

(Start: 35 @46376 has 50 MA's), (46, 46322), (49, 46313), (50, 46286), (51, 46262), (58, 46214), (84, 46010), (85, 46004), (93, 45965), (97, 45944), (111, 45872), (118, 45827), (119, 45821), (128, 45803), (134, 45776), (147, 45704),

Gene: Weiss13_70 Start: 52669, Stop: 53499, Start Num: 30

Candidate Starts for Weiss13_70:

(Start: 30 @52669 has 9 MA's), (42, 52714), (48, 52744), (50, 52777), (51, 52801), (58, 52849), (62, 52870), (72, 52963), (76, 52993), (77, 52996), (79, 53008), (91, 53092), (100, 53122), (113, 53206), (115, 53212), (118, 53224), (121, 53242), (127, 53269), (128, 53272), (145, 53368), (149, 53389), (157, 53416),

Gene: Wentworth_64 Start: 46130, Stop: 45360, Start Num: 35

Candidate Starts for Wentworth_64:

(Start: 35 @46130 has 50 MA's), (43, 46088), (46, 46076), (47, 46073), (50, 46040), (58, 45968), (71, 45869), (84, 45764), (85, 45758), (93, 45719), (97, 45698), (108, 45641), (118, 45581), (119, 45575), (134, 45530), (137, 45521),

Gene: Wheezy_65 Start: 51084, Stop: 50263, Start Num: 28

Candidate Starts for Wheezy_65:

(23, 51111), (Start: 28 @51084 has 26 MA's), (47, 51012), (71, 50790), (89, 50649), (92, 50640), (104, 50589), (110, 50553), (118, 50499), (125, 50481), (129, 50466),

Gene: WhoseManz_65 Start: 48102, Stop: 47305, Start Num: 28

Candidate Starts for WhoseManz_65:

(Start: 28 @48102 has 26 MA's), (47, 48027), (83, 47721), (86, 47691), (89, 47682), (92, 47673), (97, 47646), (104, 47619), (111, 47574), (115, 47541), (118, 47529), (125, 47511), (140, 47430), (158,

47352),

Gene: Wilkos_66 Start: 46285, Stop: 45515, Start Num: 35

Candidate Starts for Wilkos_66:

(Start: 35 @46285 has 50 MA's), (41, 46258), (43, 46243), (46, 46231), (47, 46228), (50, 46195), (51, 46171), (52, 46168), (56, 46138), (71, 46024), (84, 45919), (85, 45913), (93, 45874), (97, 45853), (108, 45796), (118, 45736), (119, 45730), (137, 45676),

Gene: Wollypog_48 Start: 34784, Stop: 35608, Start Num: 36

Candidate Starts for Wollypog_48:

(Start: 36 @34784 has 9 MA's), (45, 34832), (47, 34838), (48, 34841), (51, 34898), (77, 35081), (78, 35084), (86, 35174), (95, 35201), (98, 35222), (116, 35324), (118, 35333),

Gene: Yara_60 Start: 44990, Stop: 44223, Start Num: 35

Candidate Starts for Yara_60:

(Start: 35 @44990 has 50 MA's), (41, 44963), (46, 44936), (49, 44927), (50, 44900), (93, 44579), (94, 44576), (97, 44558), (104, 44531), (119, 44435), (156, 44297),

Gene: Yelo_69 Start: 53048, Stop: 53878, Start Num: 30

Candidate Starts for Yelo_69:

(Start: 30 @53048 has 9 MA's), (42, 53093), (48, 53123), (50, 53156), (51, 53180), (58, 53228), (62, 53249), (72, 53342), (76, 53372), (77, 53375), (79, 53387), (91, 53471), (100, 53501), (113, 53585), (115, 53591), (118, 53603), (121, 53621), (127, 53648), (128, 53651), (145, 53747), (149, 53768), (157, 53795),

Gene: Yndexa_66 Start: 50275, Stop: 49478, Start Num: 28

Candidate Starts for Yndexa_66:

(18, 50374), (23, 50302), (Start: 28 @50275 has 26 MA's), (47, 50200), (67, 50026), (83, 49894), (86, 49864), (89, 49855), (92, 49846), (97, 49819), (104, 49792), (111, 49747), (115, 49714), (118, 49702), (125, 49684), (140, 49603), (158, 49525),

Gene: Zenon_72 Start: 52992, Stop: 53822, Start Num: 30

Candidate Starts for Zenon_72:

(Start: 30 @52992 has 9 MA's), (42, 53037), (48, 53067), (50, 53100), (51, 53124), (58, 53172), (62, 53193), (72, 53286), (76, 53316), (77, 53319), (91, 53415), (100, 53445), (113, 53529), (115, 53535), (118, 53547), (121, 53565), (127, 53592), (128, 53595), (145, 53691), (149, 53712), (157, 53739),

Gene: Zion_54 Start: 45339, Stop: 44575, Start Num: 32

Candidate Starts for Zion_54:

(Start: 32 @45339 has 8 MA's), (63, 45120), (75, 45045), (110, 44838), (118, 44784), (133, 44739), (150, 44655),