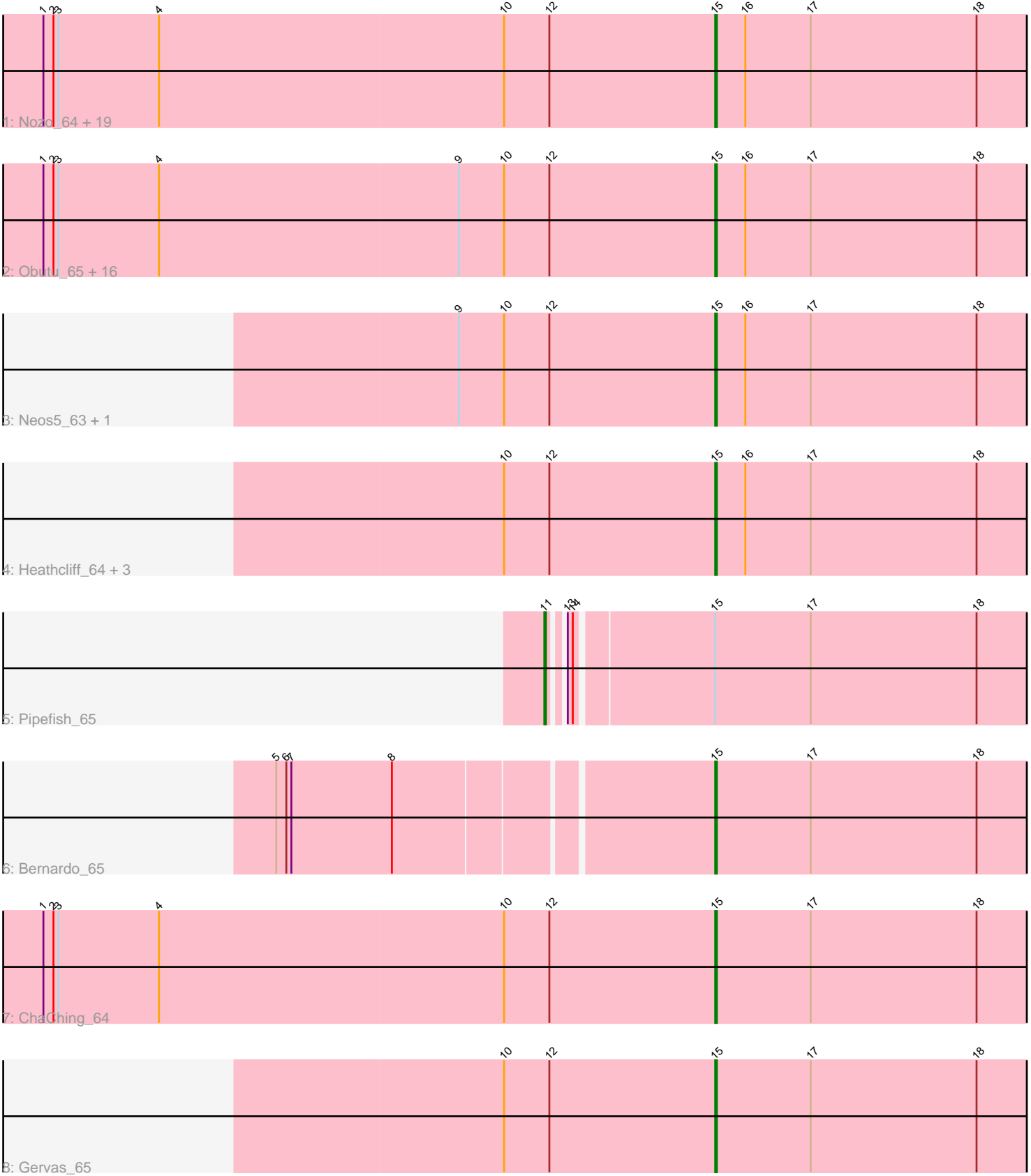


Pham 2148



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 2148 Report

This analysis was run 04/28/24 on database version 559.

Pham number 2148 has 47 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Nozo_64, OrangeOswald_64, Yinz_64, SynergyX_64, Compostia_63, Athena_66, Briakila_63, Jackstina_60, Gadget_65, Ben11_64, Daisy_63, RomaT_64, Philly_63, Chandler_64, Casbah_64, Kamiyu_64, Halfpint_63, Kronus_64, Yahalom_62, SlippinJimmy_66
- Track 2 : Obutu_65, MmasiCarm_65, Marley1013_64, GlenHope_65, Phayeta_66, RagingRooster_63, Mortcellus_64, Audrey_64, Akoma_64, Tydolla_61, LestyG_62, Corofin_64, HarveySr_63, Deenasa_64, Devonte_63, Morty007_62, Rita1961_65
- Track 3 : Neos5_63, Phaedrus_59
- Track 4 : Heathcliff_64, Baloo_63, Abinghost_64, Phlyer_64
- Track 5 : Pipefish_65
- Track 6 : Bernardo_65
- Track 7 : ChaChing_64
- Track 8 : Gervas_65

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

The start number called the most often in the published annotations is 15, it was called in 43 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost_64, Akoma_64, Athena_66, Audrey_64, Baloo_63, Ben11_64, Bernardo_65, Briakila_63, Casbah_64, ChaChing_64, Chandler_64, Compostia_63, Corofin_64, Daisy_63, Deenasa_64, Devonte_63, Gadget_65, Gervas_65, GlenHope_65, Halfpint_63, HarveySr_63, Heathcliff_64, Jackstina_60, Kamiyu_64, Kronus_64, LestyG_62, Marley1013_64, MmasiCarm_65, Mortcellus_64, Morty007_62, Neos5_63, Nozo_64, Obutu_65, OrangeOswald_64, Phaedrus_59, Phayeta_66, Philly_63, Phlyer_64, RagingRooster_63, Rita1961_65, RomaT_64, SlippinJimmy_66, SynergyX_64, Tydolla_61, Yahalom_62, Yinz_64,

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

- Pipefish_65,

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

-

Summary by start number:

Start 11:

- Found in 1 of 47 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pipefish_65 (B3),

Start 15:

- Found in 47 of 47 (100.0%) of genes in pham
- Manual Annotations of this start: 43 of 44
- Called 97.9% of time when present
- Phage (with cluster) where this start called: Abinghost_64 (B3), Akoma_64 (B3), Athena_66 (B3), Audrey_64 (B3), Baloo_63 (B3), Ben11_64 (B3), Bernardo_65 (B3), Briakila_63 (B3), Casbah_64 (B3), ChaChing_64 (B3), Chandler_64 (B3), Compostia_63 (B3), Corofin_64 (B3), Daisy_63 (B3), Deenasa_64 (B3), Devonte_63 (B3), Gadget_65 (B3), Gervas_65 (B3), GlenHope_65 (B3), Halfpint_63 (B3), HarveySr_63 (B3), Heathcliff_64 (B3), Jackstina_60 (B3), Kamiyu_64 (B3), Kronus_64 (B3), LestyG_62 (B3), Marley1013_64 (B3), MmasiCarm_65 (B3), Mortcellus_64 (B3), Morty007_62 (B3), Neos5_63 (B3), Nozo_64 (B3), Obutu_65 (B3), OrangeOswald_64 (B3), Phaedrus_59 (B3), Phayeta_66 (B3), Philly_63 (B3), Phlyer_64 (B3), RagingRooster_63 (B3), Rita1961_65 (B3), RomaT_64 (B3), SlippinJimmy_66 (B3), SynergyX_64 (B3), Tydolla_61 (B3), Yahalom_62 (B3), Yinz_64 (B3),

Summary by clusters:

There is one cluster represented in this pham: B3

Info for manual annotations of cluster B3:

- Start number 11 was manually annotated 1 time for cluster B3.
- Start number 15 was manually annotated 43 times for cluster B3.

Gene Information:

Gene: Abinghost_64 Start: 55348, Stop: 55118, Start Num: 15

Candidate Starts for Abinghost_64:

(10, 55474), (12, 55447), (Start: 15 @55348 has 43 MA's), (16, 55330), (17, 55291), (18, 55192),

Gene: Akoma_64 Start: 55396, Stop: 55166, Start Num: 15

Candidate Starts for Akoma_64:

(1, 55795), (2, 55789), (3, 55786), (4, 55726), (9, 55549), (10, 55522), (12, 55495), (Start: 15 @55396 has 43 MA's), (16, 55378), (17, 55339), (18, 55240),

Gene: Athena_66 Start: 56131, Stop: 55901, Start Num: 15

Candidate Starts for Athena_66:

(1, 56530), (2, 56524), (3, 56521), (4, 56461), (10, 56257), (12, 56230), (Start: 15 @56131 has 43 MA's), (16, 56113), (17, 56074), (18, 55975),

Gene: Audrey_64 Start: 55387, Stop: 55157, Start Num: 15

Candidate Starts for Audrey_64:

(1, 55786), (2, 55780), (3, 55777), (4, 55717), (9, 55540), (10, 55513), (12, 55486), (Start: 15 @55387 has 43 MA's), (16, 55369), (17, 55330), (18, 55231),

Gene: Baloo_63 Start: 55220, Stop: 54990, Start Num: 15

Candidate Starts for Baloo_63:

(10, 55346), (12, 55319), (Start: 15 @55220 has 43 MA's), (16, 55202), (17, 55163), (18, 55064),

Gene: Ben11_64 Start: 55605, Stop: 55375, Start Num: 15

Candidate Starts for Ben11_64:

(1, 56004), (2, 55998), (3, 55995), (4, 55935), (10, 55731), (12, 55704), (Start: 15 @55605 has 43 MA's), (16, 55587), (17, 55548), (18, 55449),

Gene: Bernardo_65 Start: 55742, Stop: 55512, Start Num: 15

Candidate Starts for Bernardo_65:

(5, 55991), (6, 55985), (7, 55982), (8, 55922), (Start: 15 @55742 has 43 MA's), (17, 55685), (18, 55586),

Gene: Briakila_63 Start: 55362, Stop: 55132, Start Num: 15

Candidate Starts for Briakila_63:

(1, 55761), (2, 55755), (3, 55752), (4, 55692), (10, 55488), (12, 55461), (Start: 15 @55362 has 43 MA's), (16, 55344), (17, 55305), (18, 55206),

Gene: Casbah_64 Start: 55707, Stop: 55477, Start Num: 15

Candidate Starts for Casbah_64:

(1, 56106), (2, 56100), (3, 56097), (4, 56037), (10, 55833), (12, 55806), (Start: 15 @55707 has 43 MA's), (16, 55689), (17, 55650), (18, 55551),

Gene: ChaChing_64 Start: 55407, Stop: 55177, Start Num: 15

Candidate Starts for ChaChing_64:

(1, 55806), (2, 55800), (3, 55797), (4, 55737), (10, 55533), (12, 55506), (Start: 15 @55407 has 43 MA's), (17, 55350), (18, 55251),

Gene: Chandler_64 Start: 56175, Stop: 55945, Start Num: 15

Candidate Starts for Chandler_64:

(1, 56574), (2, 56568), (3, 56565), (4, 56505), (10, 56301), (12, 56274), (Start: 15 @56175 has 43 MA's), (16, 56157), (17, 56118), (18, 56019),

Gene: Compostia_63 Start: 55794, Stop: 55564, Start Num: 15

Candidate Starts for Compostia_63:

(1, 56193), (2, 56187), (3, 56184), (4, 56124), (10, 55920), (12, 55893), (Start: 15 @55794 has 43 MA's), (16, 55776), (17, 55737), (18, 55638),

Gene: Corofin_64 Start: 55418, Stop: 55188, Start Num: 15

Candidate Starts for Corofin_64:

(1, 55817), (2, 55811), (3, 55808), (4, 55748), (9, 55571), (10, 55544), (12, 55517), (Start: 15 @55418 has 43 MA's), (16, 55400), (17, 55361), (18, 55262),

Gene: Daisy_63 Start: 54951, Stop: 54721, Start Num: 15

Candidate Starts for Daisy_63:

(1, 55350), (2, 55344), (3, 55341), (4, 55281), (10, 55077), (12, 55050), (Start: 15 @54951 has 43 MA's), (16, 54933), (17, 54894), (18, 54795),

Gene: Deenasa_64 Start: 56256, Stop: 56026, Start Num: 15

Candidate Starts for Deenasa_64:

(1, 56655), (2, 56649), (3, 56646), (4, 56586), (9, 56409), (10, 56382), (12, 56355), (Start: 15 @56256 has 43 MA's), (16, 56238), (17, 56199), (18, 56100),

Gene: Devonte_63 Start: 55030, Stop: 54800, Start Num: 15

Candidate Starts for Devonte_63:

(1, 55429), (2, 55423), (3, 55420), (4, 55360), (9, 55183), (10, 55156), (12, 55129), (Start: 15 @55030 has 43 MA's), (16, 55012), (17, 54973), (18, 54874),

Gene: Gadjet_65 Start: 55728, Stop: 55498, Start Num: 15

Candidate Starts for Gadjet_65:

(1, 56127), (2, 56121), (3, 56118), (4, 56058), (10, 55854), (12, 55827), (Start: 15 @55728 has 43 MA's), (16, 55710), (17, 55671), (18, 55572),

Gene: Gervas_65 Start: 55812, Stop: 55582, Start Num: 15

Candidate Starts for Gervas_65:

(10, 55938), (12, 55911), (Start: 15 @55812 has 43 MA's), (17, 55755), (18, 55656),

Gene: GlenHope_65 Start: 55386, Stop: 55156, Start Num: 15

Candidate Starts for GlenHope_65:

(1, 55785), (2, 55779), (3, 55776), (4, 55716), (9, 55539), (10, 55512), (12, 55485), (Start: 15 @55386 has 43 MA's), (16, 55368), (17, 55329), (18, 55230),

Gene: Halfpint_63 Start: 55131, Stop: 54901, Start Num: 15

Candidate Starts for Halfpint_63:

(1, 55530), (2, 55524), (3, 55521), (4, 55461), (10, 55257), (12, 55230), (Start: 15 @55131 has 43 MA's), (16, 55113), (17, 55074), (18, 54975),

Gene: HarveySr_63 Start: 54976, Stop: 54746, Start Num: 15

Candidate Starts for HarveySr_63:

(1, 55375), (2, 55369), (3, 55366), (4, 55306), (9, 55129), (10, 55102), (12, 55075), (Start: 15 @54976 has 43 MA's), (16, 54958), (17, 54919), (18, 54820),

Gene: Heathcliff_64 Start: 55353, Stop: 55123, Start Num: 15

Candidate Starts for Heathcliff_64:

(10, 55479), (12, 55452), (Start: 15 @55353 has 43 MA's), (16, 55335), (17, 55296), (18, 55197),

Gene: Jackstina_60 Start: 55278, Stop: 55048, Start Num: 15

Candidate Starts for Jackstina_60:

(1, 55677), (2, 55671), (3, 55668), (4, 55608), (10, 55404), (12, 55377), (Start: 15 @55278 has 43 MA's), (16, 55260), (17, 55221), (18, 55122),

Gene: Kamiyu_64 Start: 55355, Stop: 55125, Start Num: 15

Candidate Starts for Kamiyu_64:

(1, 55754), (2, 55748), (3, 55745), (4, 55685), (10, 55481), (12, 55454), (Start: 15 @55355 has 43 MA's), (16, 55337), (17, 55298), (18, 55199),

Gene: Kronus_64 Start: 56443, Stop: 56213, Start Num: 15

Candidate Starts for Kronus_64:

(1, 56842), (2, 56836), (3, 56833), (4, 56773), (10, 56569), (12, 56542), (Start: 15 @56443 has 43 MA's), (16, 56425), (17, 56386), (18, 56287),

Gene: LestyG_62 Start: 54873, Stop: 54643, Start Num: 15

Candidate Starts for LestyG_62:

(1, 55272), (2, 55266), (3, 55263), (4, 55203), (9, 55026), (10, 54999), (12, 54972), (Start: 15 @54873 has 43 MA's), (16, 54855), (17, 54816), (18, 54717),

Gene: Marley1013_64 Start: 56071, Stop: 55841, Start Num: 15

Candidate Starts for Marley1013_64:

(1, 56470), (2, 56464), (3, 56461), (4, 56401), (9, 56224), (10, 56197), (12, 56170), (Start: 15 @56071 has 43 MA's), (16, 56053), (17, 56014), (18, 55915),

Gene: MmasiCarm_65 Start: 55800, Stop: 55570, Start Num: 15

Candidate Starts for MmasiCarm_65:

(1, 56199), (2, 56193), (3, 56190), (4, 56130), (9, 55953), (10, 55926), (12, 55899), (Start: 15 @55800 has 43 MA's), (16, 55782), (17, 55743), (18, 55644),

Gene: Mortcellus_64 Start: 56458, Stop: 56228, Start Num: 15

Candidate Starts for Mortcellus_64:

(1, 56857), (2, 56851), (3, 56848), (4, 56788), (9, 56611), (10, 56584), (12, 56557), (Start: 15 @56458 has 43 MA's), (16, 56440), (17, 56401), (18, 56302),

Gene: Morty007_62 Start: 56071, Stop: 55841, Start Num: 15

Candidate Starts for Morty007_62:

(1, 56470), (2, 56464), (3, 56461), (4, 56401), (9, 56224), (10, 56197), (12, 56170), (Start: 15 @56071 has 43 MA's), (16, 56053), (17, 56014), (18, 55915),

Gene: Neos5_63 Start: 55533, Stop: 55303, Start Num: 15

Candidate Starts for Neos5_63:

(9, 55686), (10, 55659), (12, 55632), (Start: 15 @55533 has 43 MA's), (16, 55515), (17, 55476), (18, 55377),

Gene: Nozo_64 Start: 56154, Stop: 55924, Start Num: 15

Candidate Starts for Nozo_64:

(1, 56553), (2, 56547), (3, 56544), (4, 56484), (10, 56280), (12, 56253), (Start: 15 @56154 has 43 MA's), (16, 56136), (17, 56097), (18, 55998),

Gene: Obutu_65 Start: 55753, Stop: 55523, Start Num: 15

Candidate Starts for Obutu_65:

(1, 56152), (2, 56146), (3, 56143), (4, 56083), (9, 55906), (10, 55879), (12, 55852), (Start: 15 @55753 has 43 MA's), (16, 55735), (17, 55696), (18, 55597),

Gene: OrangeOswald_64 Start: 55395, Stop: 55165, Start Num: 15

Candidate Starts for OrangeOswald_64:

(1, 55794), (2, 55788), (3, 55785), (4, 55725), (10, 55521), (12, 55494), (Start: 15 @55395 has 43 MA's), (16, 55377), (17, 55338), (18, 55239),

Gene: Phaedrus_59 Start: 54828, Stop: 54598, Start Num: 15

Candidate Starts for Phaedrus_59:

(9, 54981), (10, 54954), (12, 54927), (Start: 15 @54828 has 43 MA's), (16, 54810), (17, 54771), (18, 54672),

Gene: Phayeta_66 Start: 55657, Stop: 55427, Start Num: 15

Candidate Starts for Phayeta_66:

(1, 56056), (2, 56050), (3, 56047), (4, 55987), (9, 55810), (10, 55783), (12, 55756), (Start: 15 @55657 has 43 MA's), (16, 55639), (17, 55600), (18, 55501),

Gene: Philly_63 Start: 55215, Stop: 54985, Start Num: 15

Candidate Starts for Philly_63:

(1, 55614), (2, 55608), (3, 55605), (4, 55545), (10, 55341), (12, 55314), (Start: 15 @55215 has 43 MA's), (16, 55197), (17, 55158), (18, 55059),

Gene: Phlyer_64 Start: 56109, Stop: 55879, Start Num: 15

Candidate Starts for Phlyer_64:

(10, 56235), (12, 56208), (Start: 15 @56109 has 43 MA's), (16, 56091), (17, 56052), (18, 55953),

Gene: Pipefish_65 Start: 56236, Stop: 55919, Start Num: 11

Candidate Starts for Pipefish_65:

(Start: 11 @56236 has 1 MA's), (13, 56230), (14, 56227), (Start: 15 @56149 has 43 MA's), (17, 56092), (18, 55993),

Gene: RagingRooster_63 Start: 55043, Stop: 54813, Start Num: 15

Candidate Starts for RagingRooster_63:

(1, 55442), (2, 55436), (3, 55433), (4, 55373), (9, 55196), (10, 55169), (12, 55142), (Start: 15 @55043 has 43 MA's), (16, 55025), (17, 54986), (18, 54887),

Gene: Rita1961_65 Start: 55753, Stop: 55523, Start Num: 15

Candidate Starts for Rita1961_65:

(1, 56152), (2, 56146), (3, 56143), (4, 56083), (9, 55906), (10, 55879), (12, 55852), (Start: 15 @55753 has 43 MA's), (16, 55735), (17, 55696), (18, 55597),

Gene: RomaT_64 Start: 55952, Stop: 55722, Start Num: 15

Candidate Starts for RomaT_64:

(1, 56351), (2, 56345), (3, 56342), (4, 56282), (10, 56078), (12, 56051), (Start: 15 @55952 has 43 MA's), (16, 55934), (17, 55895), (18, 55796),

Gene: SlippinJimmy_66 Start: 56553, Stop: 56323, Start Num: 15

Candidate Starts for SlippinJimmy_66:

(1, 56952), (2, 56946), (3, 56943), (4, 56883), (10, 56679), (12, 56652), (Start: 15 @56553 has 43 MA's), (16, 56535), (17, 56496), (18, 56397),

Gene: SynergyX_64 Start: 55392, Stop: 55162, Start Num: 15

Candidate Starts for SynergyX_64:

(1, 55791), (2, 55785), (3, 55782), (4, 55722), (10, 55518), (12, 55491), (Start: 15 @55392 has 43 MA's), (16, 55374), (17, 55335), (18, 55236),

Gene: Tydolla_61 Start: 55425, Stop: 55195, Start Num: 15

Candidate Starts for Tydolla_61:

(1, 55824), (2, 55818), (3, 55815), (4, 55755), (9, 55578), (10, 55551), (12, 55524), (Start: 15 @55425 has 43 MA's), (16, 55407), (17, 55368), (18, 55269),

Gene: Yahalom_62 Start: 55199, Stop: 54969, Start Num: 15

Candidate Starts for Yahalom_62:

(1, 55598), (2, 55592), (3, 55589), (4, 55529), (10, 55325), (12, 55298), (Start: 15 @55199 has 43 MA's), (16, 55181), (17, 55142), (18, 55043),

Gene: Yinz_64 Start: 55262, Stop: 55032, Start Num: 15

Candidate Starts for Yinz_64:

(1, 55661), (2, 55655), (3, 55652), (4, 55592), (10, 55388), (12, 55361), (Start: 15 @55262 has 43
MA's), (16, 55244), (17, 55205), (18, 55106),