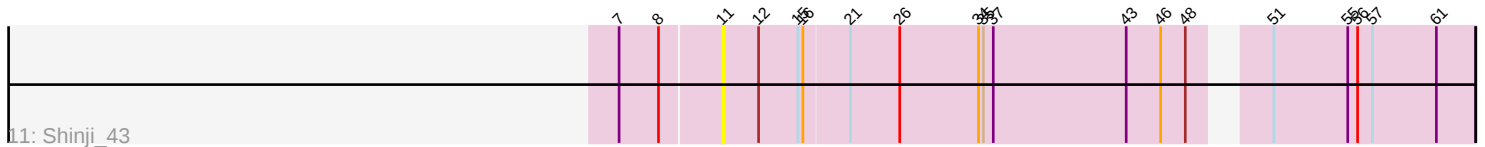
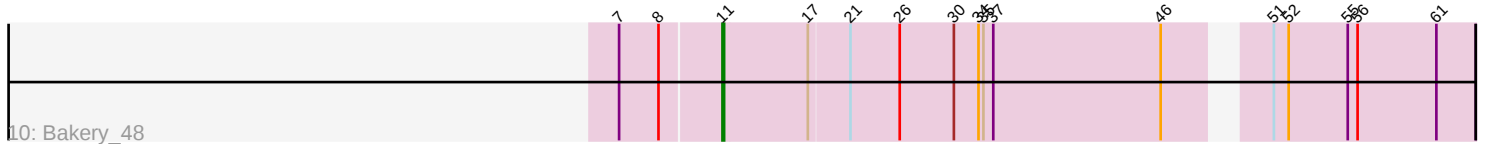
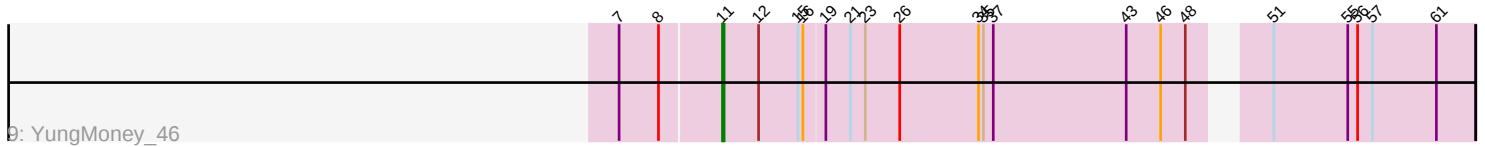
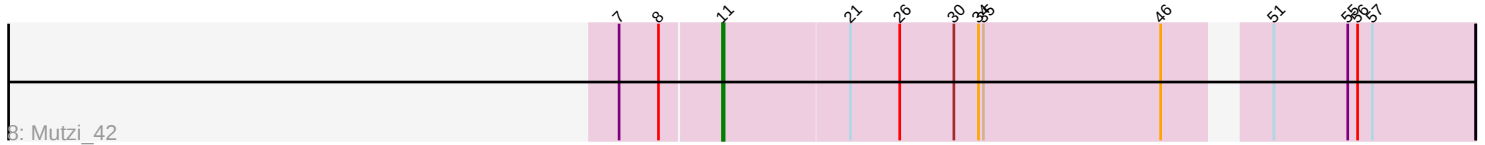
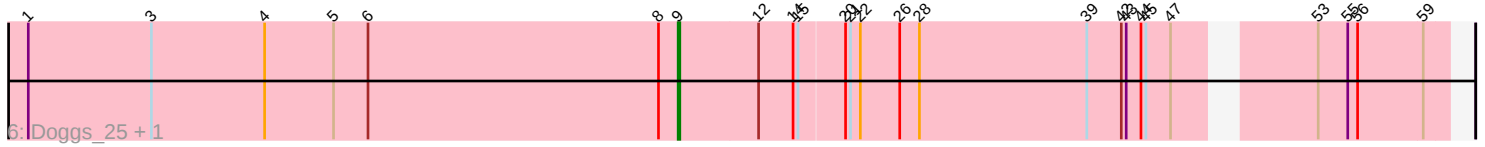
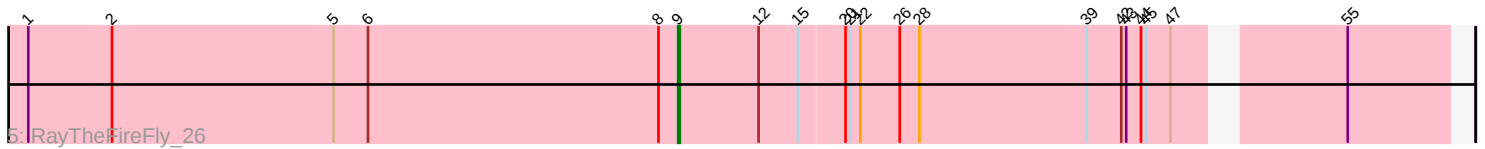
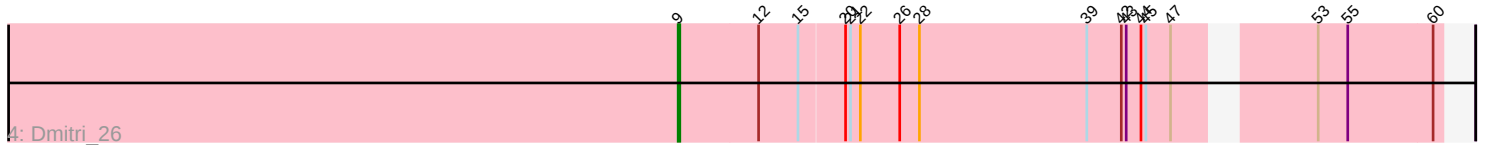
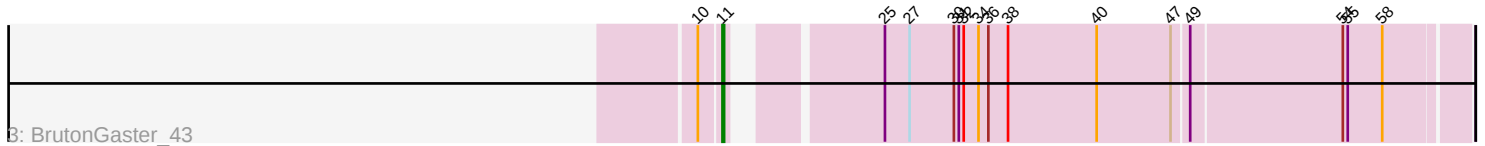
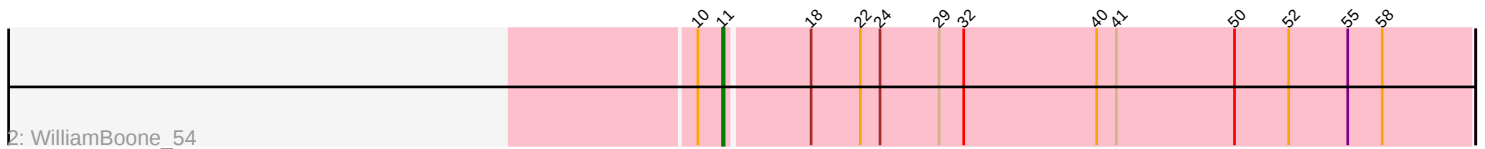
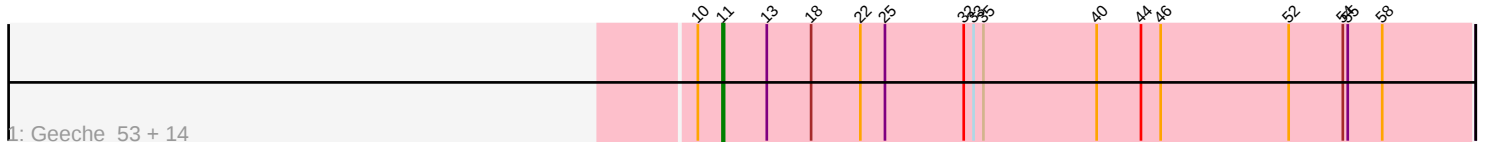


Pham 280636



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 280636 Report

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

Pham number 280636 has 37 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Geeche_53, Norvs_55, Dusty_53, Culver_54, Smoothie_56, Engineer_56, PhinkBoden_54, Lozinak_55, Miskis_52, Abscondus_53, Cucurbita_56, ClubL_54, Aphelion_54, Toniann_54, Bachita_56
- Track 2 : WilliamBoone_54
- Track 3 : BrutonGaster_43
- Track 4 : Dmitri_26
- Track 5 : RayTheFireFly_26
- Track 6 : Doggs_25, Coriander_26
- Track 7 : Togo_42, Fireball_44, Barb_45, Phlop_42, Fugax_46, PullumCavea_42, ClamChowder_45, PinkCoffee_45, Egi03_43, Nubi_43, TillyBobJoe_43, SmokingBunny_43
- Track 8 : Mutzi_42
- Track 9 : YungMoney_46
- Track 10 : Bakery_48
- Track 11 : Shinji_43

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

The start number called the most often in the published annotations is 11, it was called in 31 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_53, Aphelion_54, Bachita_56, Bakery_48, Barb_45, BrutonGaster_43, ClamChowder_45, ClubL_54, Cucurbita_56, Culver_54, Dusty_53, Egi03_43, Engineer_56, Fireball_44, Fugax_46, Geeche_53, Lozinak_55, Miskis_52, Mutzi_42, Norvs_55, Nubi_43, PhinkBoden_54, Phlop_42, PinkCoffee_45, PullumCavea_42, Shinji_43, SmokingBunny_43, Smoothie_56, TillyBobJoe_43, Togo_42, Toniann_54, WilliamBoone_54, YungMoney_46,

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

-

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

- Coriander_26, Dmitri_26, Doggs_25, RayTheFireFly_26,

Summary by start number:

Start 9:

- Found in 4 of 37 (10.8%) of genes in pham
- Manual Annotations of this start: 4 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Coriander_26 (DB), Dmitri_26 (DB), Doggs_25 (DB), RayTheFireFly_26 (DB),

Start 11:

- Found in 33 of 37 (89.2%) of genes in pham
- Manual Annotations of this start: 31 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_53 (CQ1), Aphelion_54 (CQ1), Bachita_56 (CQ1), Bakery_48 (DC1), Barb_45 (DC1), BrutonGaster_43 (CQ2), ClamChowder_45 (DC1), ClubL_54 (CQ1), Cucurbita_56 (CQ1), Culver_54 (CQ1), Dusty_53 (CQ1), Egi03_43 (DC1), Engineer_56 (CQ1), Fireball_44 (DC1), Fugax_46 (DC1), Geeche_53 (CQ1), Lozinak_55 (CQ1), Miskis_52 (CQ1), Mutzi_42 (DC1), Norvs_55 (CQ1), Nubi_43 (DC1), PhinkBoden_54 (CQ1), Phlop_42 (DC1), PinkCoffee_45 (DC1), PullumCavea_42 (DC1), Shinji_43 (DC1), SmokingBunny_43 (DC1), Smoothie_56 (CQ1), TillyBobJoe_43 (DC1), Togo_42 (DC1), Toniann_54 (CQ1), WilliamBoone_54 (CQ1), YungMoney_46 (DC1),

Summary by clusters:

There are 4 clusters represented in this pham: CQ2, CQ1, DB, DC1,

Info for manual annotations of cluster CQ1:

- Start number 11 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 11 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DB:

- Start number 9 was manually annotated 4 times for cluster DB.

Info for manual annotations of cluster DC1:

- Start number 11 was manually annotated 15 times for cluster DC1.

Gene Information:

Gene: Abscondus_53 Start: 33557, Stop: 34012, Start Num: 11

Candidate Starts for Abscondus_53:

(10, 33542), (Start: 11 @33557 has 31 MA's), (13, 33584), (18, 33611), (22, 33641), (25, 33656), (32, 33704), (33, 33710), (35, 33716), (40, 33785), (44, 33812), (46, 33824), (52, 33902), (54, 33935), (55, 33938), (58, 33959),

Gene: Aphelion_54 Start: 33826, Stop: 34281, Start Num: 11

Candidate Starts for Aphelion_54:

(10, 33811), (Start: 11 @33826 has 31 MA's), (13, 33853), (18, 33880), (22, 33910), (25, 33925), (32, 33973), (33, 33979), (35, 33985), (40, 34054), (44, 34081), (46, 34093), (52, 34171), (54, 34204), (55, 34207), (58, 34228),

Gene: Bachita_56 Start: 34259, Stop: 34714, Start Num: 11

Candidate Starts for Bachita_56:

(10, 34244), (Start: 11 @34259 has 31 MA's), (13, 34286), (18, 34313), (22, 34343), (25, 34358), (32, 34406), (33, 34412), (35, 34418), (40, 34487), (44, 34514), (46, 34526), (52, 34604), (54, 34637), (55, 34640), (58, 34661),

Gene: Bakery_48 Start: 37078, Stop: 37512, Start Num: 11

Candidate Starts for Bakery_48:

(7, 37018), (8, 37042), (Start: 11 @37078 has 31 MA's), (17, 37129), (21, 37153), (26, 37183), (30, 37216), (34, 37231), (35, 37234), (37, 37240), (46, 37342), (51, 37390), (52, 37399), (55, 37435), (56, 37441), (61, 37489),

Gene: Barb_45 Start: 36050, Stop: 36484, Start Num: 11

Candidate Starts for Barb_45:

(7, 35990), (8, 36014), (Start: 11 @36050 has 31 MA's), (21, 36125), (26, 36155), (30, 36188), (34, 36203), (35, 36206), (46, 36314), (51, 36362), (52, 36371), (55, 36407), (56, 36413), (57, 36422),

Gene: BrutonGaster_43 Start: 30940, Stop: 31359, Start Num: 11

Candidate Starts for BrutonGaster_43:

(10, 30928), (Start: 11 @30940 has 31 MA's), (25, 31015), (27, 31030), (30, 31057), (31, 31060), (32, 31063), (34, 31072), (36, 31078), (38, 31090), (40, 31144), (47, 31189), (49, 31198), (54, 31288), (55, 31291), (58, 31312),

Gene: ClamChowder_45 Start: 36050, Stop: 36484, Start Num: 11

Candidate Starts for ClamChowder_45:

(7, 35990), (8, 36014), (Start: 11 @36050 has 31 MA's), (21, 36125), (26, 36155), (30, 36188), (34, 36203), (35, 36206), (46, 36314), (51, 36362), (52, 36371), (55, 36407), (56, 36413), (57, 36422),

Gene: ClubL_54 Start: 33748, Stop: 34203, Start Num: 11

Candidate Starts for ClubL_54:

(10, 33733), (Start: 11 @33748 has 31 MA's), (13, 33775), (18, 33802), (22, 33832), (25, 33847), (32, 33895), (33, 33901), (35, 33907), (40, 33976), (44, 34003), (46, 34015), (52, 34093), (54, 34126), (55, 34129), (58, 34150),

Gene: Coriander_26 Start: 22098, Stop: 22541, Start Num: 9

Candidate Starts for Coriander_26:

(1, 21702), (3, 21777), (4, 21846), (5, 21888), (6, 21909), (8, 22086), (Start: 9 @22098 has 4 MA's), (12, 22146), (14, 22167), (15, 22170), (20, 22197), (21, 22200), (22, 22206), (26, 22230), (28, 22242), (39, 22344), (42, 22365), (43, 22368), (44, 22377), (45, 22380), (47, 22395), (53, 22464), (55, 22482), (56, 22488), (59, 22527),

Gene: Cucurbita_56 Start: 35118, Stop: 35573, Start Num: 11

Candidate Starts for Cucurbita_56:

(10, 35103), (Start: 11 @35118 has 31 MA's), (13, 35145), (18, 35172), (22, 35202), (25, 35217), (32, 35265), (33, 35271), (35, 35277), (40, 35346), (44, 35373), (46, 35385), (52, 35463), (54, 35496), (55, 35499), (58, 35520),

Gene: Culver_54 Start: 33557, Stop: 34012, Start Num: 11

Candidate Starts for Culver_54:

(10, 33542), (Start: 11 @33557 has 31 MA's), (13, 33584), (18, 33611), (22, 33641), (25, 33656), (32, 33704), (33, 33710), (35, 33716), (40, 33785), (44, 33812), (46, 33824), (52, 33902), (54, 33935), (55, 33938), (58, 33959),

Gene: Dmitri_26 Start: 22153, Stop: 22593, Start Num: 9

Candidate Starts for Dmitri_26:

(Start: 9 @22153 has 4 MA's), (12, 22201), (15, 22225), (20, 22252), (21, 22255), (22, 22261), (26, 22285), (28, 22297), (39, 22399), (42, 22420), (43, 22423), (44, 22432), (45, 22435), (47, 22450), (53, 22519), (55, 22537), (60, 22588),

Gene: Doggs_25 Start: 21797, Stop: 22240, Start Num: 9

Candidate Starts for Doggs_25:

(1, 21401), (3, 21476), (4, 21545), (5, 21587), (6, 21608), (8, 21785), (Start: 9 @21797 has 4 MA's), (12, 21845), (14, 21866), (15, 21869), (20, 21896), (21, 21899), (22, 21905), (26, 21929), (28, 21941), (39, 22043), (42, 22064), (43, 22067), (44, 22076), (45, 22079), (47, 22094), (53, 22163), (55, 22181), (56, 22187), (59, 22226),

Gene: Dusty_53 Start: 33557, Stop: 34012, Start Num: 11

Candidate Starts for Dusty_53:

(10, 33542), (Start: 11 @33557 has 31 MA's), (13, 33584), (18, 33611), (22, 33641), (25, 33656), (32, 33704), (33, 33710), (35, 33716), (40, 33785), (44, 33812), (46, 33824), (52, 33902), (54, 33935), (55, 33938), (58, 33959),

Gene: Egi03_43 Start: 35531, Stop: 35965, Start Num: 11

Candidate Starts for Egi03_43:

(7, 35471), (8, 35495), (Start: 11 @35531 has 31 MA's), (21, 35606), (26, 35636), (30, 35669), (34, 35684), (35, 35687), (46, 35795), (51, 35843), (52, 35852), (55, 35888), (56, 35894), (57, 35903),

Gene: Engineer_56 Start: 34232, Stop: 34687, Start Num: 11

Candidate Starts for Engineer_56:

(10, 34217), (Start: 11 @34232 has 31 MA's), (13, 34259), (18, 34286), (22, 34316), (25, 34331), (32, 34379), (33, 34385), (35, 34391), (40, 34460), (44, 34487), (46, 34499), (52, 34577), (54, 34610), (55, 34613), (58, 34634),

Gene: Fireball_44 Start: 35995, Stop: 36429, Start Num: 11

Candidate Starts for Fireball_44:

(7, 35935), (8, 35959), (Start: 11 @35995 has 31 MA's), (21, 36070), (26, 36100), (30, 36133), (34, 36148), (35, 36151), (46, 36259), (51, 36307), (52, 36316), (55, 36352), (56, 36358), (57, 36367),

Gene: Fugax_46 Start: 36042, Stop: 36476, Start Num: 11

Candidate Starts for Fugax_46:

(7, 35982), (8, 36006), (Start: 11 @36042 has 31 MA's), (21, 36117), (26, 36147), (30, 36180), (34, 36195), (35, 36198), (46, 36306), (51, 36354), (52, 36363), (55, 36399), (56, 36405), (57, 36414),

Gene: Geeche_53 Start: 33648, Stop: 34103, Start Num: 11

Candidate Starts for Geeche_53:

(10, 33633), (Start: 11 @33648 has 31 MA's), (13, 33675), (18, 33702), (22, 33732), (25, 33747), (32, 33795), (33, 33801), (35, 33807), (40, 33876), (44, 33903), (46, 33915), (52, 33993), (54, 34026), (55, 34029), (58, 34050),

Gene: Lozinak_55 Start: 34287, Stop: 34742, Start Num: 11

Candidate Starts for Lozinak_55:

(10, 34272), (Start: 11 @34287 has 31 MA's), (13, 34314), (18, 34341), (22, 34371), (25, 34386), (32, 34434), (33, 34440), (35, 34446), (40, 34515), (44, 34542), (46, 34554), (52, 34632), (54, 34665), (55, 34668), (58, 34689),

Gene: Miskis_52 Start: 33592, Stop: 34047, Start Num: 11

Candidate Starts for Miskis_52:

(10, 33577), (Start: 11 @33592 has 31 MA's), (13, 33619), (18, 33646), (22, 33676), (25, 33691), (32, 33739), (33, 33745), (35, 33751), (40, 33820), (44, 33847), (46, 33859), (52, 33937), (54, 33970), (55, 33973), (58, 33994),

Gene: Mutzi_42 Start: 36730, Stop: 37164, Start Num: 11

Candidate Starts for Mutzi_42:

(7, 36670), (8, 36694), (Start: 11 @36730 has 31 MA's), (21, 36805), (26, 36835), (30, 36868), (34, 36883), (35, 36886), (46, 36994), (51, 37042), (55, 37087), (56, 37093), (57, 37102),

Gene: Norvs_55 Start: 33831, Stop: 34286, Start Num: 11

Candidate Starts for Norvs_55:

(10, 33816), (Start: 11 @33831 has 31 MA's), (13, 33858), (18, 33885), (22, 33915), (25, 33930), (32, 33978), (33, 33984), (35, 33990), (40, 34059), (44, 34086), (46, 34098), (52, 34176), (54, 34209), (55, 34212), (58, 34233),

Gene: Nubi_43 Start: 35875, Stop: 36309, Start Num: 11

Candidate Starts for Nubi_43:

(7, 35815), (8, 35839), (Start: 11 @35875 has 31 MA's), (21, 35950), (26, 35980), (30, 36013), (34, 36028), (35, 36031), (46, 36139), (51, 36187), (52, 36196), (55, 36232), (56, 36238), (57, 36247),

Gene: PhinkBoden_54 Start: 34212, Stop: 34667, Start Num: 11

Candidate Starts for PhinkBoden_54:

(10, 34197), (Start: 11 @34212 has 31 MA's), (13, 34239), (18, 34266), (22, 34296), (25, 34311), (32, 34359), (33, 34365), (35, 34371), (40, 34440), (44, 34467), (46, 34479), (52, 34557), (54, 34590), (55, 34593), (58, 34614),

Gene: Phlop_42 Start: 35956, Stop: 36390, Start Num: 11

Candidate Starts for Phlop_42:

(7, 35896), (8, 35920), (Start: 11 @35956 has 31 MA's), (21, 36031), (26, 36061), (30, 36094), (34, 36109), (35, 36112), (46, 36220), (51, 36268), (52, 36277), (55, 36313), (56, 36319), (57, 36328),

Gene: PinkCoffee_45 Start: 36059, Stop: 36493, Start Num: 11

Candidate Starts for PinkCoffee_45:

(7, 35999), (8, 36023), (Start: 11 @36059 has 31 MA's), (21, 36134), (26, 36164), (30, 36197), (34, 36212), (35, 36215), (46, 36323), (51, 36371), (52, 36380), (55, 36416), (56, 36422), (57, 36431),

Gene: PullumCavea_42 Start: 35956, Stop: 36390, Start Num: 11

Candidate Starts for PullumCavea_42:

(7, 35896), (8, 35920), (Start: 11 @35956 has 31 MA's), (21, 36031), (26, 36061), (30, 36094), (34, 36109), (35, 36112), (46, 36220), (51, 36268), (52, 36277), (55, 36313), (56, 36319), (57, 36328),

Gene: RayTheFireFly_26 Start: 22130, Stop: 22573, Start Num: 9

Candidate Starts for RayTheFireFly_26:

(1, 21734), (2, 21785), (5, 21920), (6, 21941), (8, 22118), (Start: 9 @22130 has 4 MA's), (12, 22178), (15, 22202), (20, 22229), (21, 22232), (22, 22238), (26, 22262), (28, 22274), (39, 22376), (42, 22397), (43, 22400), (44, 22409), (45, 22412), (47, 22427), (55, 22514),

Gene: Shinji_43 Start: 35312, Stop: 35746, Start Num: 11

Candidate Starts for Shinji_43:

(7, 35252), (8, 35276), (Start: 11 @35312 has 31 MA's), (12, 35333), (15, 35357), (16, 35360), (21, 35387), (26, 35417), (34, 35465), (35, 35468), (37, 35474), (43, 35555), (46, 35576), (48, 35591), (51, 35624), (55, 35669), (56, 35675), (57, 35684), (61, 35723),

Gene: SmokingBunny_43 Start: 35861, Stop: 36295, Start Num: 11

Candidate Starts for SmokingBunny_43:

(7, 35801), (8, 35825), (Start: 11 @35861 has 31 MA's), (21, 35936), (26, 35966), (30, 35999), (34, 36014), (35, 36017), (46, 36125), (51, 36173), (52, 36182), (55, 36218), (56, 36224), (57, 36233),

Gene: Smoothie_56 Start: 34287, Stop: 34742, Start Num: 11

Candidate Starts for Smoothie_56:

(10, 34272), (Start: 11 @34287 has 31 MA's), (13, 34314), (18, 34341), (22, 34371), (25, 34386), (32, 34434), (33, 34440), (35, 34446), (40, 34515), (44, 34542), (46, 34554), (52, 34632), (54, 34665), (55, 34668), (58, 34689),

Gene: TillyBobJoe_43 Start: 35665, Stop: 36099, Start Num: 11

Candidate Starts for TillyBobJoe_43:

(7, 35605), (8, 35629), (Start: 11 @35665 has 31 MA's), (21, 35740), (26, 35770), (30, 35803), (34, 35818), (35, 35821), (46, 35929), (51, 35977), (52, 35986), (55, 36022), (56, 36028), (57, 36037),

Gene: Togo_42 Start: 35861, Stop: 36295, Start Num: 11

Candidate Starts for Togo_42:

(7, 35801), (8, 35825), (Start: 11 @35861 has 31 MA's), (21, 35936), (26, 35966), (30, 35999), (34, 36014), (35, 36017), (46, 36125), (51, 36173), (52, 36182), (55, 36218), (56, 36224), (57, 36233),

Gene: Toniann_54 Start: 33774, Stop: 34229, Start Num: 11

Candidate Starts for Toniann_54:

(10, 33759), (Start: 11 @33774 has 31 MA's), (13, 33801), (18, 33828), (22, 33858), (25, 33873), (32, 33921), (33, 33927), (35, 33933), (40, 34002), (44, 34029), (46, 34041), (52, 34119), (54, 34152), (55, 34155), (58, 34176),

Gene: WilliamBoone_54 Start: 33126, Stop: 33575, Start Num: 11

Candidate Starts for WilliamBoone_54:

(10, 33111), (Start: 11 @33126 has 31 MA's), (18, 33174), (22, 33204), (24, 33216), (29, 33252), (32, 33267), (40, 33348), (41, 33360), (50, 33432), (52, 33465), (55, 33501), (58, 33522),

Gene: YungMoney_46 Start: 38304, Stop: 38738, Start Num: 11

Candidate Starts for YungMoney_46:

(7, 38244), (8, 38268), (Start: 11 @38304 has 31 MA's), (12, 38325), (15, 38349), (16, 38352), (19, 38364), (21, 38379), (23, 38388), (26, 38409), (34, 38457), (35, 38460), (37, 38466), (43, 38547), (46, 38568), (48, 38583), (51, 38616), (55, 38661), (56, 38667), (57, 38676), (61, 38715),