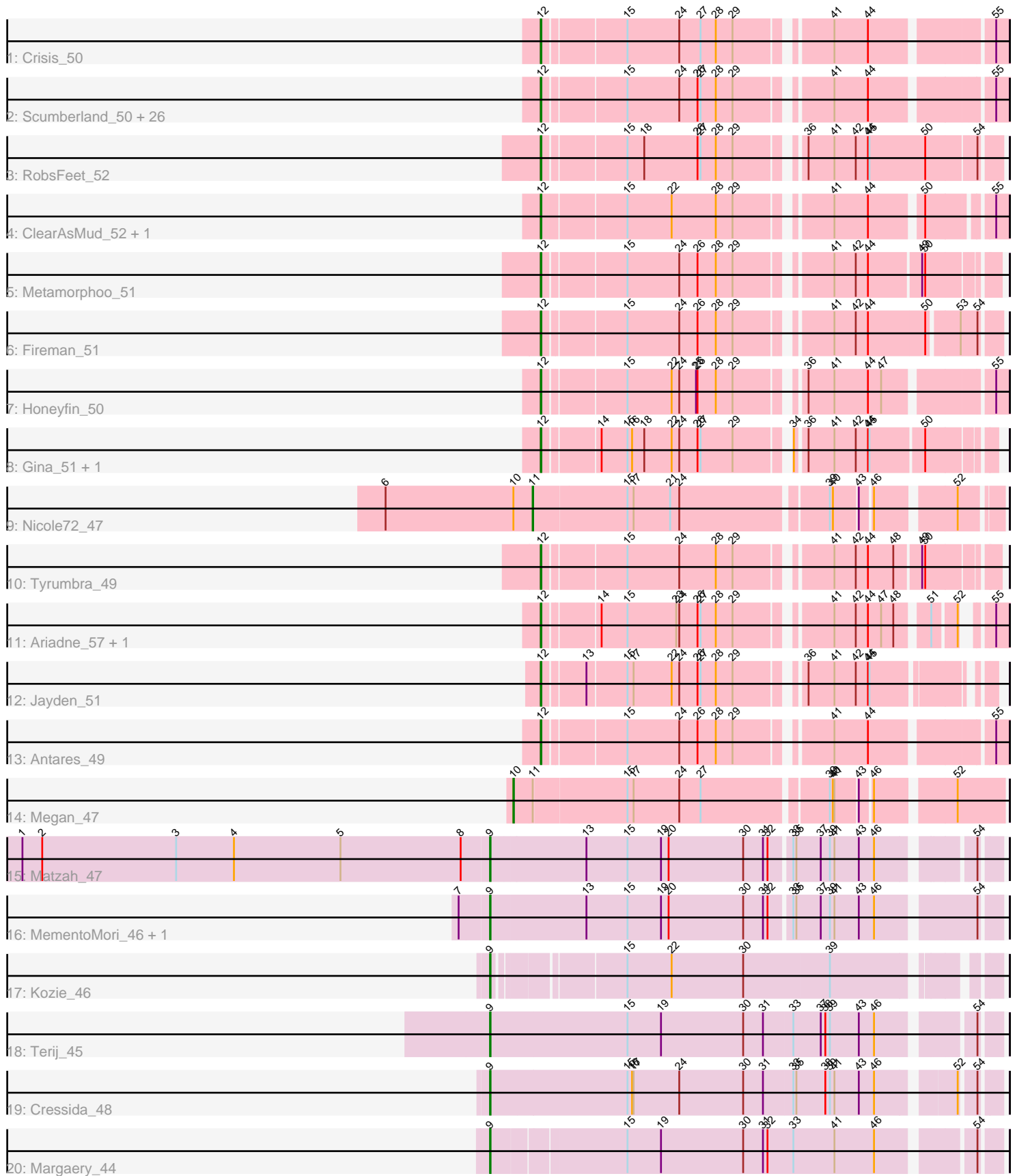


Pham 2011



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 2011 Report

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

Pham number 2011 has 50 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Crisis_50
- Track 2 : Scumberland_50, EarickHC_49, BrazzalePHS_48, Hermeonysus_48, Quhwah_52, KaiHaiDragon_49, Paschalis_48, CrazyRich_48, Selwyn23_50, Busephilis_48, Pulchra_50, Cranjis_50, LittleFortune_50, Ganandorf_48, Phorgeous_48, Jefe_49, PierreOrion_49, Savannah_48, Kowalski_48, Piperis_49, Ramiel05_48, Yeti_49, Onika_48, Phrancesco_49, Jollipop_49, PiperSansNom_49, Shotgun_48
- Track 3 : RobsFeet_52
- Track 4 : ClearAsMud_52, NoodlelyBoi_50
- Track 5 : Metamorphoo_51
- Track 6 : Fireman_51
- Track 7 : Honeyfin_50
- Track 8 : Gina_51, Teamocil_51
- Track 9 : Nicole72_47
- Track 10 : Tyumbra_49
- Track 11 : Ariadne_57, Smarties_57
- Track 12 : Jayden_51
- Track 13 : Antares_49
- Track 14 : Megan_47
- Track 15 : Matzah_47
- Track 16 : MementoMori_46, Cinna_45
- Track 17 : Kozie_46
- Track 18 : Terij_45
- Track 19 : Cressida_48
- Track 20 : Margaery_44

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

The start number called the most often in the published annotations is 12, it was called in 37 of the 46 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_49, Ariadne_57, BrazzalePHS_48, Busephilis_48, ClearAsMud_52, Cranjis_50, CrazyRich_48, Crisis_50, EarickHC_49, Fireman_51, Ganandorf_48,

Gina_51, Hermeonysus_48, Honeyfin_50, Jayden_51, Jefe_49, Jollipop_49, KaiHaiDragon_49, Kowalski_48, LittleFortune_50, Metamorphoo_51, NoodlelyBoi_50, Onika_48, Paschalis_48, Phorgeous_48, Phrancesco_49, PierreOrion_49, PiperSansNom_49, Piperis_49, Pulchra_50, Quhwah_52, Ramiel05_48, RobsFeet_52, Savannah_48, Scumberland_50, Selwyn23_50, Shotgun_48, Smarties_57, Teamocil_51, Tyumbra_49, Yeti_49,

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

-

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

- Cinna_45, Cressida_48, Kozie_46, Margaery_44, Matzah_47, Megan_47, MementoMori_46, Nicole72_47, Terij_45,

Summary by start number:

Start 9:

- Found in 7 of 50 (14.0%) of genes in pham
- Manual Annotations of this start: 7 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cinna_45 (EI), Cressida_48 (EI), Kozie_46 (EI), Margaery_44 (EI), Matzah_47 (EI), MementoMori_46 (EI), Terij_45 (EI),

Start 10:

- Found in 2 of 50 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Megan_47 (EC),

Start 11:

- Found in 2 of 50 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Nicole72_47 (EC),

Start 12:

- Found in 41 of 50 (82.0%) of genes in pham
- Manual Annotations of this start: 37 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antares_49 (EC), Ariadne_57 (EC), BrazzalePHS_48 (EC), Busephilis_48 (EC), ClearAsMud_52 (EC), Cranjis_50 (EC), CrazyRich_48 (EC), Crisis_50 (EC), EarickHC_49 (EC), Fireman_51 (EC), Ganandorf_48 (EC), Gina_51 (EC), Hermeonysus_48 (EC), Honeyfin_50 (EC), Jayden_51 (EC), Jefe_49 (EC), Jollipop_49 (EC), KaiHaiDragon_49 (EC), Kowalski_48 (EC), LittleFortune_50 (EC), Metamorphoo_51 (EC), NoodlelyBoi_50 (EC), Onika_48 (EC), Paschalis_48 (EC), Phorgeous_48 (EC), Phrancesco_49 (EC), PierreOrion_49 (EC), PiperSansNom_49 (EC), Piperis_49 (EC), Pulchra_50 (EC), Quhwah_52 (EC), Ramiel05_48 (EC), RobsFeet_52 (EC), Savannah_48 (EC), Scumberland_50 (EC), Selwyn23_50 (EC), Shotgun_48 (EC), Smarties_57 (EC), Teamocil_51 (EC), Tyumbra_49 (EC), Yeti_49 (EC),

Summary by clusters:

There are 2 clusters represented in this pham: EI, EC,

Info for manual annotations of cluster EC:

- Start number 10 was manually annotated 1 time for cluster EC.
- Start number 11 was manually annotated 1 time for cluster EC.
- Start number 12 was manually annotated 37 times for cluster EC.

Info for manual annotations of cluster EI:

- Start number 9 was manually annotated 7 times for cluster EI.

Gene Information:

Gene: Antares_49 Start: 33842, Stop: 34657, Start Num: 12

Candidate Starts for Antares_49:

(Start: 12 @33842 has 37 MA's), (15, 33992), (24, 34094), (26, 34130), (28, 34166), (29, 34199), (41, 34358), (44, 34424), (55, 34631),

Gene: Ariadne_57 Start: 35399, Stop: 36184, Start Num: 12

Candidate Starts for Ariadne_57:

(Start: 12 @35399 has 37 MA's), (14, 35498), (15, 35549), (23, 35645), (24, 35651), (26, 35687), (27, 35693), (28, 35723), (29, 35756), (41, 35915), (42, 35957), (44, 35981), (47, 36005), (48, 36029), (51, 36083), (52, 36125), (55, 36158),

Gene: BrazzalePHS_48 Start: 33638, Stop: 34453, Start Num: 12

Candidate Starts for BrazzalePHS_48:

(Start: 12 @33638 has 37 MA's), (15, 33788), (24, 33890), (26, 33926), (27, 33932), (28, 33962), (29, 33995), (41, 34154), (44, 34220), (55, 34427),

Gene: Busephilis_48 Start: 33578, Stop: 34393, Start Num: 12

Candidate Starts for Busephilis_48:

(Start: 12 @33578 has 37 MA's), (15, 33728), (24, 33830), (26, 33866), (27, 33872), (28, 33902), (29, 33935), (41, 34094), (44, 34160), (55, 34367),

Gene: Cinna_45 Start: 33883, Stop: 34827, Start Num: 9

Candidate Starts for Cinna_45:

(7, 33826), (Start: 9 @33883 has 7 MA's), (13, 34063), (15, 34144), (19, 34210), (20, 34225), (30, 34369), (31, 34408), (32, 34417), (33, 34456), (35, 34462), (37, 34510), (39, 34528), (41, 34537), (43, 34585), (46, 34615), (54, 34789),

Gene: ClearAsMud_52 Start: 34048, Stop: 34863, Start Num: 12

Candidate Starts for ClearAsMud_52:

(Start: 12 @34048 has 37 MA's), (15, 34204), (22, 34291), (28, 34378), (29, 34411), (41, 34570), (44, 34636), (50, 34726), (55, 34837),

Gene: Cranjis_50 Start: 33797, Stop: 34612, Start Num: 12

Candidate Starts for Cranjis_50:

(Start: 12 @33797 has 37 MA's), (15, 33947), (24, 34049), (26, 34085), (27, 34091), (28, 34121), (29, 34154), (41, 34313), (44, 34379), (55, 34586),

Gene: CrazyRich_48 Start: 33606, Stop: 34421, Start Num: 12

Candidate Starts for CrazyRich_48:

(Start: 12 @33606 has 37 MA's), (15, 33756), (24, 33858), (26, 33894), (27, 33900), (28, 33930), (29, 33963), (41, 34122), (44, 34188), (55, 34395),

Gene: Cressida_48 Start: 33507, Stop: 34451, Start Num: 9

Candidate Starts for Cressida_48:

(Start: 9 @33507 has 7 MA's), (15, 33774), (16, 33783), (17, 33786), (24, 33873), (30, 33999), (31, 34038), (33, 34095), (35, 34101), (38, 34158), (39, 34167), (41, 34176), (43, 34224), (46, 34254), (52, 34389), (54, 34413),

Gene: Crisis_50 Start: 33597, Stop: 34412, Start Num: 12

Candidate Starts for Crisis_50:

(Start: 12 @33597 has 37 MA's), (15, 33747), (24, 33849), (27, 33891), (28, 33921), (29, 33954), (41, 34113), (44, 34179), (55, 34386),

Gene: EarickHC_49 Start: 33520, Stop: 34335, Start Num: 12

Candidate Starts for EarickHC_49:

(Start: 12 @33520 has 37 MA's), (15, 33670), (24, 33772), (26, 33808), (27, 33814), (28, 33844), (29, 33877), (41, 34036), (44, 34102), (55, 34309),

Gene: Fireman_51 Start: 35442, Stop: 36248, Start Num: 12

Candidate Starts for Fireman_51:

(Start: 12 @35442 has 37 MA's), (15, 35592), (24, 35694), (26, 35730), (28, 35766), (29, 35799), (41, 35955), (42, 35997), (44, 36021), (50, 36126), (53, 36183), (54, 36210),

Gene: Ganandorf_48 Start: 33659, Stop: 34474, Start Num: 12

Candidate Starts for Ganandorf_48:

(Start: 12 @33659 has 37 MA's), (15, 33809), (24, 33911), (26, 33947), (27, 33953), (28, 33983), (29, 34016), (41, 34175), (44, 34241), (55, 34448),

Gene: Gina_51 Start: 33583, Stop: 34383, Start Num: 12

Candidate Starts for Gina_51:

(Start: 12 @33583 has 37 MA's), (14, 33682), (15, 33733), (16, 33742), (18, 33766), (22, 33820), (24, 33835), (26, 33871), (27, 33877), (29, 33940), (34, 34030), (36, 34048), (41, 34099), (42, 34141), (44, 34165), (45, 34168), (50, 34267),

Gene: Hermeonysus_48 Start: 33526, Stop: 34341, Start Num: 12

Candidate Starts for Hermeonysus_48:

(Start: 12 @33526 has 37 MA's), (15, 33676), (24, 33778), (26, 33814), (27, 33820), (28, 33850), (29, 33883), (41, 34042), (44, 34108), (55, 34315),

Gene: Honeyfin_50 Start: 33847, Stop: 34662, Start Num: 12

Candidate Starts for Honeyfin_50:

(Start: 12 @33847 has 37 MA's), (15, 33997), (22, 34084), (24, 34099), (25, 34132), (26, 34135), (28, 34171), (29, 34204), (36, 34312), (41, 34363), (44, 34429), (47, 34453), (55, 34636),

Gene: Jayden_51 Start: 34285, Stop: 35064, Start Num: 12

Candidate Starts for Jayden_51:

(Start: 12 @34285 has 37 MA's), (13, 34360), (15, 34435), (17, 34447), (22, 34522), (24, 34537), (26, 34573), (27, 34579), (28, 34609), (29, 34642), (36, 34750), (41, 34801), (42, 34843), (44, 34867), (45, 34870),

Gene: Jefe_49 Start: 33584, Stop: 34399, Start Num: 12

Candidate Starts for Jefe_49:

(Start: 12 @33584 has 37 MA's), (15, 33734), (24, 33836), (26, 33872), (27, 33878), (28, 33908), (29, 33941), (41, 34100), (44, 34166), (55, 34373),

Gene: Jollipop_49 Start: 33923, Stop: 34738, Start Num: 12

Candidate Starts for Jollipop_49:

(Start: 12 @33923 has 37 MA's), (15, 34073), (24, 34175), (26, 34211), (27, 34217), (28, 34247), (29, 34280), (41, 34439), (44, 34505), (55, 34712),

Gene: KaiHaiDragon_49 Start: 33520, Stop: 34335, Start Num: 12

Candidate Starts for KaiHaiDragon_49:

(Start: 12 @33520 has 37 MA's), (15, 33670), (24, 33772), (26, 33808), (27, 33814), (28, 33844), (29, 33877), (41, 34036), (44, 34102), (55, 34309),

Gene: Kowalski_48 Start: 33633, Stop: 34448, Start Num: 12

Candidate Starts for Kowalski_48:

(Start: 12 @33633 has 37 MA's), (15, 33783), (24, 33885), (26, 33921), (27, 33927), (28, 33957), (29, 33990), (41, 34149), (44, 34215), (55, 34422),

Gene: Kozie_46 Start: 33929, Stop: 34822, Start Num: 9

Candidate Starts for Kozie_46:

(Start: 9 @33929 has 7 MA's), (15, 34154), (22, 34241), (30, 34382), (39, 34550),

Gene: LittleFortune_50 Start: 33889, Stop: 34704, Start Num: 12

Candidate Starts for LittleFortune_50:

(Start: 12 @33889 has 37 MA's), (15, 34039), (24, 34141), (26, 34177), (27, 34183), (28, 34213), (29, 34246), (41, 34405), (44, 34471), (55, 34678),

Gene: Margaery_44 Start: 33136, Stop: 34059, Start Num: 9

Candidate Starts for Margaery_44:

(Start: 9 @33136 has 7 MA's), (15, 33379), (19, 33445), (30, 33604), (31, 33643), (32, 33652), (33, 33703), (41, 33784), (46, 33862), (54, 34021),

Gene: Matzah_47 Start: 33979, Stop: 34908, Start Num: 9

Candidate Starts for Matzah_47:

(1, 33061), (2, 33100), (3, 33364), (4, 33478), (5, 33688), (8, 33925), (Start: 9 @33979 has 7 MA's), (13, 34159), (15, 34240), (19, 34306), (20, 34321), (30, 34465), (31, 34504), (32, 34513), (33, 34552), (35, 34558), (37, 34606), (39, 34624), (41, 34633), (43, 34681), (46, 34711), (54, 34870),

Gene: Megan_47 Start: 36965, Stop: 37858, Start Num: 10

Candidate Starts for Megan_47:

(Start: 10 @36965 has 1 MA's), (Start: 11 @37001 has 1 MA's), (15, 37178), (17, 37190), (24, 37280), (27, 37322), (39, 37553), (40, 37559), (41, 37562), (43, 37604), (46, 37625), (52, 37766),

Gene: MementoMori_46 Start: 33571, Stop: 34515, Start Num: 9

Candidate Starts for MementoMori_46:

(7, 33514), (Start: 9 @33571 has 7 MA's), (13, 33751), (15, 33832), (19, 33898), (20, 33913), (30, 34057), (31, 34096), (32, 34105), (33, 34144), (35, 34150), (37, 34198), (39, 34216), (41, 34225), (43, 34273), (46, 34303), (54, 34477),

Gene: Metamorphoo_51 Start: 34704, Stop: 35510, Start Num: 12

Candidate Starts for Metamorphoo_51:

(Start: 12 @34704 has 37 MA's), (15, 34854), (24, 34956), (26, 34992), (28, 35028), (29, 35061), (41, 35220), (42, 35262), (44, 35286), (49, 35382), (50, 35388),

Gene: Nicole72_47 Start: 37419, Stop: 38255, Start Num: 11

Candidate Starts for Nicole72_47:

(6, 37131), (Start: 10 @37383 has 1 MA's), (Start: 11 @37419 has 1 MA's), (15, 37596), (17, 37608), (21, 37677), (24, 37695), (39, 37968), (40, 37974), (43, 38019), (46, 38040), (52, 38181),

Gene: NoodlelyBoi_50 Start: 34260, Stop: 35075, Start Num: 12

Candidate Starts for NoodlelyBoi_50:

(Start: 12 @34260 has 37 MA's), (15, 34416), (22, 34503), (28, 34590), (29, 34623), (41, 34782), (44, 34848), (50, 34938), (55, 35049),

Gene: Onika_48 Start: 33608, Stop: 34423, Start Num: 12

Candidate Starts for Onika_48:

(Start: 12 @33608 has 37 MA's), (15, 33758), (24, 33860), (26, 33896), (27, 33902), (28, 33932), (29, 33965), (41, 34124), (44, 34190), (55, 34397),

Gene: Paschalis_48 Start: 33615, Stop: 34430, Start Num: 12

Candidate Starts for Paschalis_48:

(Start: 12 @33615 has 37 MA's), (15, 33765), (24, 33867), (26, 33903), (27, 33909), (28, 33939), (29, 33972), (41, 34131), (44, 34197), (55, 34404),

Gene: Phorgeous_48 Start: 33478, Stop: 34293, Start Num: 12

Candidate Starts for Phorgeous_48:

(Start: 12 @33478 has 37 MA's), (15, 33628), (24, 33730), (26, 33766), (27, 33772), (28, 33802), (29, 33835), (41, 33994), (44, 34060), (55, 34267),

Gene: Phrancesco_49 Start: 33768, Stop: 34583, Start Num: 12

Candidate Starts for Phrancesco_49:

(Start: 12 @33768 has 37 MA's), (15, 33918), (24, 34020), (26, 34056), (27, 34062), (28, 34092), (29, 34125), (41, 34284), (44, 34350), (55, 34557),

Gene: PierreOrion_49 Start: 33782, Stop: 34597, Start Num: 12

Candidate Starts for PierreOrion_49:

(Start: 12 @33782 has 37 MA's), (15, 33932), (24, 34034), (26, 34070), (27, 34076), (28, 34106), (29, 34139), (41, 34298), (44, 34364), (55, 34571),

Gene: PiperSansNom_49 Start: 33922, Stop: 34737, Start Num: 12

Candidate Starts for PiperSansNom_49:

(Start: 12 @33922 has 37 MA's), (15, 34072), (24, 34174), (26, 34210), (27, 34216), (28, 34246), (29, 34279), (41, 34438), (44, 34504), (55, 34711),

Gene: Piperis_49 Start: 33601, Stop: 34416, Start Num: 12

Candidate Starts for Piperis_49:

(Start: 12 @33601 has 37 MA's), (15, 33751), (24, 33853), (26, 33889), (27, 33895), (28, 33925), (29, 33958), (41, 34117), (44, 34183), (55, 34390),

Gene: Pulchra_50 Start: 33998, Stop: 34813, Start Num: 12

Candidate Starts for Pulchra_50:

(Start: 12 @33998 has 37 MA's), (15, 34148), (24, 34250), (26, 34286), (27, 34292), (28, 34322), (29, 34355), (41, 34514), (44, 34580), (55, 34787),

Gene: Quhwah_52 Start: 34230, Stop: 35045, Start Num: 12

Candidate Starts for Quhwah_52:

(Start: 12 @34230 has 37 MA's), (15, 34380), (24, 34482), (26, 34518), (27, 34524), (28, 34554), (29, 34587), (41, 34746), (44, 34812), (55, 35019),

Gene: Ramiel05_48 Start: 33633, Stop: 34448, Start Num: 12

Candidate Starts for Ramiel05_48:

(Start: 12 @33633 has 37 MA's), (15, 33783), (24, 33885), (26, 33921), (27, 33927), (28, 33957), (29, 33990), (41, 34149), (44, 34215), (55, 34422),

Gene: RobsFeet_52 Start: 34985, Stop: 35809, Start Num: 12

Candidate Starts for RobsFeet_52:

(Start: 12 @34985 has 37 MA's), (15, 35135), (18, 35168), (26, 35273), (27, 35279), (28, 35309), (29, 35342), (36, 35450), (41, 35501), (42, 35543), (44, 35567), (45, 35570), (50, 35678), (54, 35771),

Gene: Savannah_48 Start: 33660, Stop: 34475, Start Num: 12

Candidate Starts for Savannah_48:

(Start: 12 @33660 has 37 MA's), (15, 33810), (24, 33912), (26, 33948), (27, 33954), (28, 33984), (29, 34017), (41, 34176), (44, 34242), (55, 34449),

Gene: Scumberland_50 Start: 33855, Stop: 34670, Start Num: 12

Candidate Starts for Scumberland_50:

(Start: 12 @33855 has 37 MA's), (15, 34005), (24, 34107), (26, 34143), (27, 34149), (28, 34179), (29, 34212), (41, 34371), (44, 34437), (55, 34644),

Gene: Selwyn23_50 Start: 33832, Stop: 34647, Start Num: 12

Candidate Starts for Selwyn23_50:

(Start: 12 @33832 has 37 MA's), (15, 33982), (24, 34084), (26, 34120), (27, 34126), (28, 34156), (29, 34189), (41, 34348), (44, 34414), (55, 34621),

Gene: Shotgun_48 Start: 33459, Stop: 34274, Start Num: 12

Candidate Starts for Shotgun_48:

(Start: 12 @33459 has 37 MA's), (15, 33609), (24, 33711), (26, 33747), (27, 33753), (28, 33783), (29, 33816), (41, 33975), (44, 34041), (55, 34248),

Gene: Smarties_57 Start: 35399, Stop: 36184, Start Num: 12

Candidate Starts for Smarties_57:

(Start: 12 @35399 has 37 MA's), (14, 35498), (15, 35549), (23, 35645), (24, 35651), (26, 35687), (27, 35693), (28, 35723), (29, 35756), (41, 35915), (42, 35957), (44, 35981), (47, 36005), (48, 36029), (51, 36083), (52, 36125), (55, 36158),

Gene: Teamocil_51 Start: 33682, Stop: 34482, Start Num: 12

Candidate Starts for Teamocil_51:

(Start: 12 @33682 has 37 MA's), (14, 33781), (15, 33832), (16, 33841), (18, 33865), (22, 33919), (24, 33934), (26, 33970), (27, 33976), (29, 34039), (34, 34129), (36, 34147), (41, 34198), (42, 34240), (44, 34264), (45, 34267), (50, 34366),

Gene: Terij_45 Start: 32597, Stop: 33538, Start Num: 9

Candidate Starts for Terij_45:

(Start: 9 @32597 has 7 MA's), (15, 32864), (19, 32930), (30, 33089), (31, 33128), (33, 33185), (37, 33239), (38, 33248), (39, 33257), (43, 33314), (46, 33344), (54, 33500),

Gene: Tyrumbra_49 Start: 34785, Stop: 35588, Start Num: 12

Candidate Starts for Tyrumbra_49:

(Start: 12 @34785 has 37 MA's), (15, 34935), (24, 35037), (28, 35109), (29, 35142), (41, 35298), (42, 35340), (44, 35364), (48, 35412), (49, 35460), (50, 35466),

Gene: Yeti_49 Start: 33634, Stop: 34449, Start Num: 12

Candidate Starts for Yeti_49:

(Start: 12 @33634 has 37 MA's), (15, 33784), (24, 33886), (26, 33922), (27, 33928), (28, 33958), (29, 33991), (41, 34150), (44, 34216), (55, 34423),