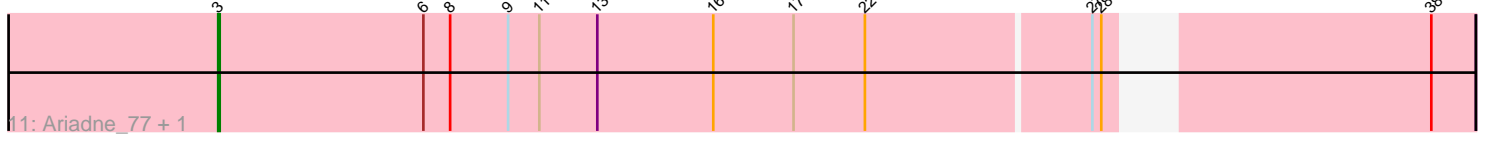
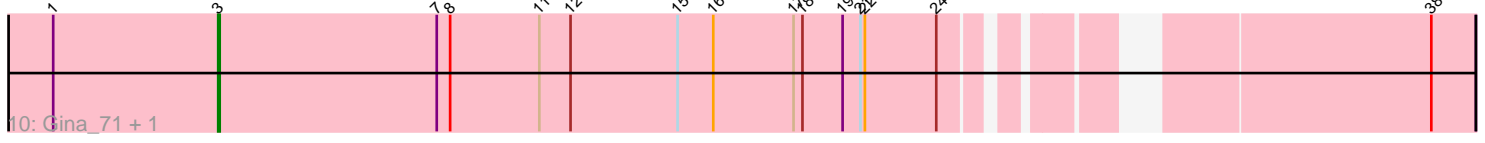
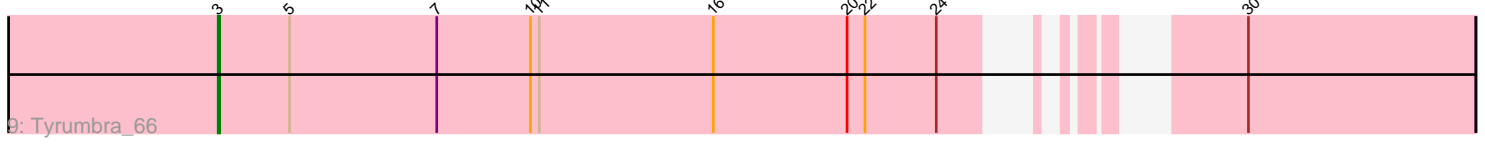
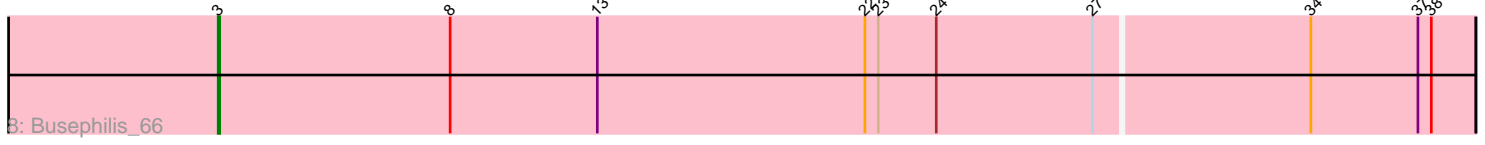
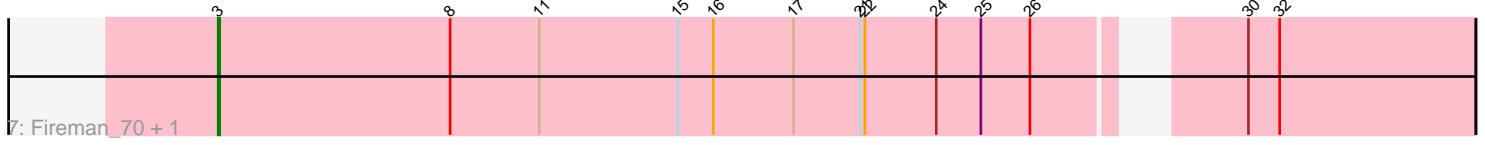
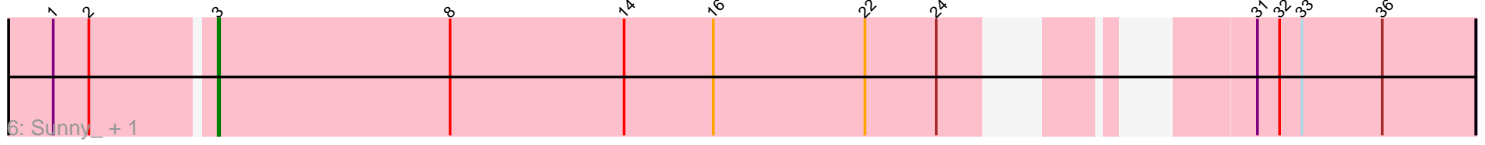
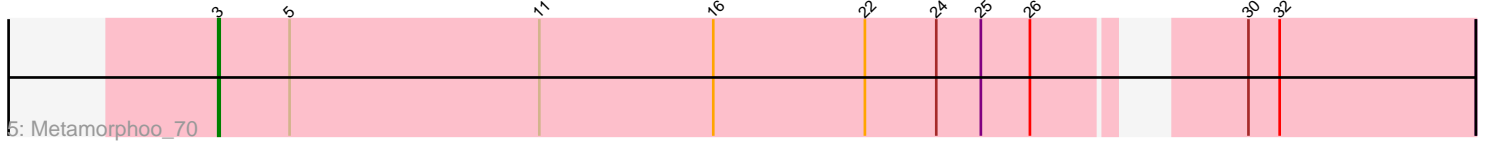
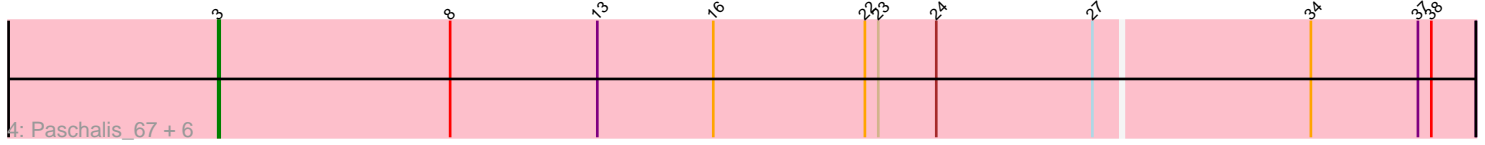
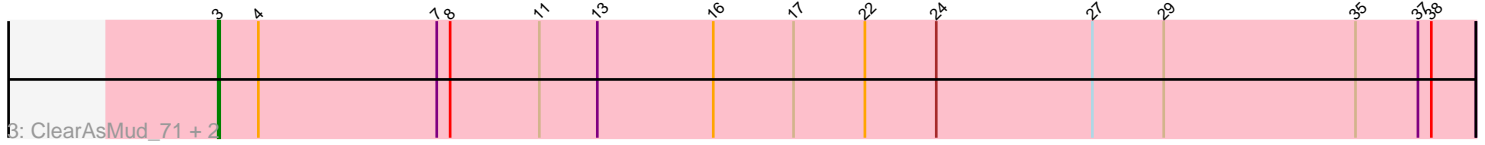
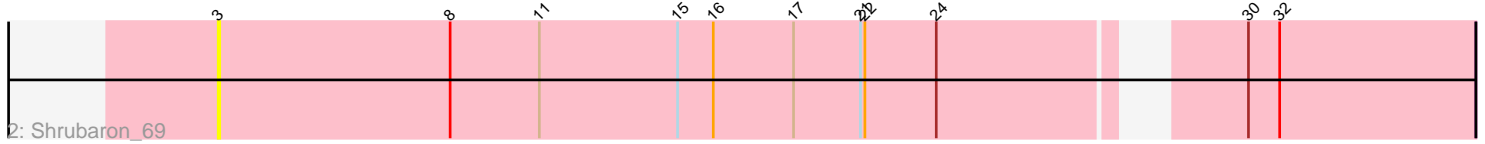
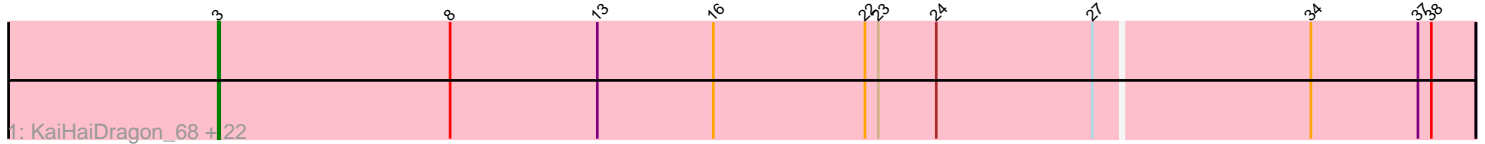


Pham 224681



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 224681 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224681 has 45 members, 4 are drafts.

Phages represented in each track:

- Track 1 : KaiHaiDragon_68, EarickHC_68, Hermeonysus_67, Shotgun_67, Quhwah_71, Cranjis_68, PhedwardCullen_65, Honeyfin_68, Jefe_67, Phorgeous_67, Savannah_66, Ganandorf_66, Piperis_68, Selwyn23_68, Scumberland_69, Yeti_69, Crisis_68, Pulchra_69, CrazyRich_66, Glorp_68, Phrancesco_67, LittleFortune_69, Antares_67
- Track 2 : Shrubaron_69
- Track 3 : ClearAsMud_71, NoodlelyBoi_68, SirFrank_68
- Track 4 : Paschalis_67, BrazzalePHS_66, Onika_66, Jollipop_68, Ramiel05_66, Kowalski_66, PiperSansNom_68
- Track 5 : Metamorphoo_70
- Track 6 : Sunny_, Merry_
- Track 7 : Fireman_70, RobsFeet_71
- Track 8 : Busephilis_66
- Track 9 : Tyumbra_66
- Track 10 : Gina_71, Teamocil_71
- Track 11 : Ariadne_77, Smarties_77

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

The start number called the most often in the published annotations is 3, it was called in 41 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_67, Ariadne_77, BrazzalePHS_66, Busephilis_66, ClearAsMud_71, Cranjis_68, CrazyRich_66, Crisis_68, EarickHC_68, Fireman_70, Ganandorf_66, Gina_71, Glorp_68, Hermeonysus_67, Honeyfin_68, Jefe_67, Jollipop_68, KaiHaiDragon_68, Kowalski_66, LittleFortune_69, Merry_, Metamorphoo_70, NoodlelyBoi_68, Onika_66, Paschalis_67, PhedwardCullen_65, Phorgeous_67, Phrancesco_67, PiperSansNom_68, Piperis_68, Pulchra_69, Quhwah_71, Ramiel05_66, RobsFeet_71, Savannah_66, Scumberland_69, Selwyn23_68, Shotgun_67, Shrubaron_69, SirFrank_68, Smarties_77, Sunny_, Teamocil_71, Tyumbra_66, Yeti_69,

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

-

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

-

Summary by start number:

Start 3:

- Found in 45 of 45 (100.0%) of genes in pham
- Manual Annotations of this start: 41 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antares_67 (EC), Ariadne_77 (EC), BrazzalePHS_66 (EC), Busephilis_66 (EC), ClearAsMud_71 (EC), Cranjis_68 (EC), CrazyRich_66 (EC), Crisis_68 (EC), EarickHC_68 (EC), Fireman_70 (EC), Ganandorf_66 (EC), Gina_71 (EC), Glorp_68 (EC), Hermeonysus_67 (EC), Honeyfin_68 (EC), Jefe_67 (EC), Jollipop_68 (EC), KaiHaiDragon_68 (EC), Kowalski_66 (EC), LittleFortune_69 (EC), Merry_ (EC), Metamorphoo_70 (EC), NoodlelyBoi_68 (EC), Onika_66 (EC), Paschalis_67 (EC), PhedwardCullen_65 (EC), Phorgeous_67 (EC), Phrancesco_67 (EC), PiperSansNom_68 (EC), Piperis_68 (EC), Pulchra_69 (EC), Quhwah_71 (EC), Ramiel05_66 (EC), RobsFeet_71 (EC), Savannah_66 (EC), Scumberland_69 (EC), Selwyn23_68 (EC), Shotgun_67 (EC), Shrubaron_69 (EC), SirFrank_68 (EC), Smarties_77 (EC), Sunny_ (EC), Teamocil_71 (EC), Tyumbra_66 (EC), Yeti_69 (EC),

Summary by clusters:

There is one cluster represented in this pham: EC

Info for manual annotations of cluster EC:

- Start number 3 was manually annotated 41 times for cluster EC.

Gene Information:

Gene: Antares_67 Start: 41921, Stop: 42760, Start Num: 3

Candidate Starts for Antares_67:

(Start: 3 @41921 has 41 MA's), (8, 42077), (13, 42176), (16, 42254), (22, 42356), (23, 42365), (24, 42404), (27, 42509), (34, 42650), (37, 42722), (38, 42731),

Gene: Ariadne_77 Start: 43541, Stop: 44338, Start Num: 3

Candidate Starts for Ariadne_77:

(Start: 3 @43541 has 41 MA's), (6, 43679), (8, 43697), (9, 43736), (11, 43757), (13, 43796), (16, 43874), (17, 43928), (22, 43976), (27, 44123), (28, 44129), (38, 44309),

Gene: BrazzalePHS_66 Start: 41689, Stop: 42528, Start Num: 3

Candidate Starts for BrazzalePHS_66:

(Start: 3 @41689 has 41 MA's), (8, 41845), (13, 41944), (16, 42022), (22, 42124), (23, 42133), (24, 42172), (27, 42277), (34, 42418), (37, 42490), (38, 42499),

Gene: Busephilis_66 Start: 41628, Stop: 42467, Start Num: 3

Candidate Starts for Busephilis_66:

(Start: 3 @41628 has 41 MA's), (8, 41784), (13, 41883), (22, 42063), (23, 42072), (24, 42111), (27, 42216), (34, 42357), (37, 42429), (38, 42438),

Gene: ClearAsMud_71 Start: 42203, Stop: 43048, Start Num: 3

Candidate Starts for ClearAsMud_71:

(Start: 3 @42203 has 41 MA's), (4, 42230), (7, 42350), (8, 42359), (11, 42419), (13, 42458), (16, 42536), (17, 42590), (22, 42638), (24, 42686), (27, 42791), (29, 42839), (35, 42968), (37, 43010), (38, 43019),

Gene: Cranjjs_68 Start: 41876, Stop: 42715, Start Num: 3

Candidate Starts for Cranjjs_68:

(Start: 3 @41876 has 41 MA's), (8, 42032), (13, 42131), (16, 42209), (22, 42311), (23, 42320), (24, 42359), (27, 42464), (34, 42605), (37, 42677), (38, 42686),

Gene: CrazyRich_66 Start: 41682, Stop: 42521, Start Num: 3

Candidate Starts for CrazyRich_66:

(Start: 3 @41682 has 41 MA's), (8, 41838), (13, 41937), (16, 42015), (22, 42117), (23, 42126), (24, 42165), (27, 42270), (34, 42411), (37, 42483), (38, 42492),

Gene: Crisis_68 Start: 41691, Stop: 42530, Start Num: 3

Candidate Starts for Crisis_68:

(Start: 3 @41691 has 41 MA's), (8, 41847), (13, 41946), (16, 42024), (22, 42126), (23, 42135), (24, 42174), (27, 42279), (34, 42420), (37, 42492), (38, 42501),

Gene: EarickHC_68 Start: 41613, Stop: 42452, Start Num: 3

Candidate Starts for EarickHC_68:

(Start: 3 @41613 has 41 MA's), (8, 41769), (13, 41868), (16, 41946), (22, 42048), (23, 42057), (24, 42096), (27, 42201), (34, 42342), (37, 42414), (38, 42423),

Gene: Fireman_70 Start: 43653, Stop: 44456, Start Num: 3

Candidate Starts for Fireman_70:

(Start: 3 @43653 has 41 MA's), (8, 43809), (11, 43869), (15, 43962), (16, 43986), (17, 44040), (21, 44085), (22, 44088), (24, 44136), (25, 44166), (26, 44199), (30, 44304), (32, 44325),

Gene: Ganandorf_66 Start: 41709, Stop: 42548, Start Num: 3

Candidate Starts for Ganandorf_66:

(Start: 3 @41709 has 41 MA's), (8, 41865), (13, 41964), (16, 42042), (22, 42144), (23, 42153), (24, 42192), (27, 42297), (34, 42438), (37, 42510), (38, 42519),

Gene: Gina_71 Start: 41770, Stop: 42552, Start Num: 3

Candidate Starts for Gina_71:

(1, 41659), (Start: 3 @41770 has 41 MA's), (7, 41917), (8, 41926), (11, 41986), (12, 42007), (15, 42079), (16, 42103), (17, 42157), (18, 42163), (19, 42190), (21, 42202), (22, 42205), (24, 42253), (38, 42523),

Gene: Glorp_68 Start: 41673, Stop: 42512, Start Num: 3

Candidate Starts for Glorp_68:

(Start: 3 @41673 has 41 MA's), (8, 41829), (13, 41928), (16, 42006), (22, 42108), (23, 42117), (24, 42156), (27, 42261), (34, 42402), (37, 42474), (38, 42483),

Gene: Hermeonysus_67 Start: 41604, Stop: 42437, Start Num: 3

Candidate Starts for Hermeonysus_67:

(Start: 3 @41604 has 41 MA's), (8, 41760), (13, 41859), (16, 41937), (22, 42039), (23, 42048), (24, 42087), (27, 42186), (34, 42327), (37, 42399), (38, 42408),

Gene: Honeyfin_68 Start: 41864, Stop: 42697, Start Num: 3

Candidate Starts for Honeyfin_68:

(Start: 3 @41864 has 41 MA's), (8, 42020), (13, 42119), (16, 42197), (22, 42299), (23, 42308), (24, 42347), (27, 42446), (34, 42587), (37, 42659), (38, 42668),

Gene: Jefe_67 Start: 41659, Stop: 42498, Start Num: 3

Candidate Starts for Jefe_67:

(Start: 3 @41659 has 41 MA's), (8, 41815), (13, 41914), (16, 41992), (22, 42094), (23, 42103), (24, 42142), (27, 42247), (34, 42388), (37, 42460), (38, 42469),

Gene: Jollipop_68 Start: 42047, Stop: 42886, Start Num: 3

Candidate Starts for Jollipop_68:

(Start: 3 @42047 has 41 MA's), (8, 42203), (13, 42302), (16, 42380), (22, 42482), (23, 42491), (24, 42530), (27, 42635), (34, 42776), (37, 42848), (38, 42857),

Gene: KaiHaiDragon_68 Start: 41613, Stop: 42452, Start Num: 3

Candidate Starts for KaiHaiDragon_68:

(Start: 3 @41613 has 41 MA's), (8, 41769), (13, 41868), (16, 41946), (22, 42048), (23, 42057), (24, 42096), (27, 42201), (34, 42342), (37, 42414), (38, 42423),

Gene: Kowalski_66 Start: 41684, Stop: 42523, Start Num: 3

Candidate Starts for Kowalski_66:

(Start: 3 @41684 has 41 MA's), (8, 41840), (13, 41939), (16, 42017), (22, 42119), (23, 42128), (24, 42167), (27, 42272), (34, 42413), (37, 42485), (38, 42494),

Gene: LittleFortune_69 Start: 41969, Stop: 42808, Start Num: 3

Candidate Starts for LittleFortune_69:

(Start: 3 @41969 has 41 MA's), (8, 42125), (13, 42224), (16, 42302), (22, 42404), (23, 42413), (24, 42452), (27, 42557), (34, 42698), (37, 42770), (38, 42779),

Gene: Merry_ Start: 43851, Stop: 44606, Start Num: 3

Candidate Starts for Merry_:

(1, 43749), (2, 43773), (Start: 3 @43851 has 41 MA's), (8, 44007), (14, 44124), (16, 44184), (22, 44286), (24, 44334), (31, 44460), (32, 44475), (33, 44490), (36, 44544),

Gene: Metamorphoo_70 Start: 42947, Stop: 43750, Start Num: 3

Candidate Starts for Metamorphoo_70:

(Start: 3 @42947 has 41 MA's), (5, 42995), (11, 43163), (16, 43280), (22, 43382), (24, 43430), (25, 43460), (26, 43493), (30, 43598), (32, 43619),

Gene: NoodlelyBoi_68 Start: 42452, Stop: 43297, Start Num: 3

Candidate Starts for NoodlelyBoi_68:

(Start: 3 @42452 has 41 MA's), (4, 42479), (7, 42599), (8, 42608), (11, 42668), (13, 42707), (16, 42785), (17, 42839), (22, 42887), (24, 42935), (27, 43040), (29, 43088), (35, 43217), (37, 43259), (38, 43268),

Gene: Onika_66 Start: 41693, Stop: 42526, Start Num: 3

Candidate Starts for Onika_66:

(Start: 3 @41693 has 41 MA's), (8, 41849), (13, 41948), (16, 42026), (22, 42128), (23, 42137), (24, 42176), (27, 42275), (34, 42416), (37, 42488), (38, 42497),

Gene: Paschalis_67 Start: 41712, Stop: 42551, Start Num: 3

Candidate Starts for Paschalis_67:

(Start: 3 @41712 has 41 MA's), (8, 41868), (13, 41967), (16, 42045), (22, 42147), (23, 42156), (24, 42195), (27, 42300), (34, 42441), (37, 42513), (38, 42522),

Gene: PhedwardCullen_65 Start: 41429, Stop: 42268, Start Num: 3

Candidate Starts for PhedwardCullen_65:

(Start: 3 @41429 has 41 MA's), (8, 41585), (13, 41684), (16, 41762), (22, 41864), (23, 41873), (24, 41912), (27, 42017), (34, 42158), (37, 42230), (38, 42239),

Gene: Phorgeous_67 Start: 41495, Stop: 42334, Start Num: 3

Candidate Starts for Phorgeous_67:

(Start: 3 @41495 has 41 MA's), (8, 41651), (13, 41750), (16, 41828), (22, 41930), (23, 41939), (24, 41978), (27, 42083), (34, 42224), (37, 42296), (38, 42305),

Gene: Phrancesco_67 Start: 41818, Stop: 42657, Start Num: 3

Candidate Starts for Phrancesco_67:

(Start: 3 @41818 has 41 MA's), (8, 41974), (13, 42073), (16, 42151), (22, 42253), (23, 42262), (24, 42301), (27, 42406), (34, 42547), (37, 42619), (38, 42628),

Gene: PiperSansNom_68 Start: 42003, Stop: 42836, Start Num: 3

Candidate Starts for PiperSansNom_68:

(Start: 3 @42003 has 41 MA's), (8, 42159), (13, 42258), (16, 42336), (22, 42438), (23, 42447), (24, 42486), (27, 42585), (34, 42726), (37, 42798), (38, 42807),

Gene: Piperis_68 Start: 41620, Stop: 42459, Start Num: 3

Candidate Starts for Piperis_68:

(Start: 3 @41620 has 41 MA's), (8, 41776), (13, 41875), (16, 41953), (22, 42055), (23, 42064), (24, 42103), (27, 42208), (34, 42349), (37, 42421), (38, 42430),

Gene: Pulchra_69 Start: 42016, Stop: 42855, Start Num: 3

Candidate Starts for Pulchra_69:

(Start: 3 @42016 has 41 MA's), (8, 42172), (13, 42271), (16, 42349), (22, 42451), (23, 42460), (24, 42499), (27, 42604), (34, 42745), (37, 42817), (38, 42826),

Gene: Quhwah_71 Start: 42305, Stop: 43144, Start Num: 3

Candidate Starts for Quhwah_71:

(Start: 3 @42305 has 41 MA's), (8, 42461), (13, 42560), (16, 42638), (22, 42740), (23, 42749), (24, 42788), (27, 42893), (34, 43034), (37, 43106), (38, 43115),

Gene: Ramiel05_66 Start: 41684, Stop: 42523, Start Num: 3

Candidate Starts for Ramiel05_66:

(Start: 3 @41684 has 41 MA's), (8, 41840), (13, 41939), (16, 42017), (22, 42119), (23, 42128), (24, 42167), (27, 42272), (34, 42413), (37, 42485), (38, 42494),

Gene: RobsFeet_71 Start: 43233, Stop: 44036, Start Num: 3

Candidate Starts for RobsFeet_71:

(Start: 3 @43233 has 41 MA's), (8, 43389), (11, 43449), (15, 43542), (16, 43566), (17, 43620), (21, 43665), (22, 43668), (24, 43716), (25, 43746), (26, 43779), (30, 43884), (32, 43905),

Gene: Savannah_66 Start: 41735, Stop: 42574, Start Num: 3

Candidate Starts for Savannah_66:

(Start: 3 @41735 has 41 MA's), (8, 41891), (13, 41990), (16, 42068), (22, 42170), (23, 42179), (24, 42218), (27, 42323), (34, 42464), (37, 42536), (38, 42545),

Gene: Scumberland_69 Start: 41930, Stop: 42769, Start Num: 3

Candidate Starts for Scumberland_69:

(Start: 3 @41930 has 41 MA's), (8, 42086), (13, 42185), (16, 42263), (22, 42365), (23, 42374), (24, 42413), (27, 42518), (34, 42659), (37, 42731), (38, 42740),

Gene: Selwyn23_68 Start: 41847, Stop: 42686, Start Num: 3

Candidate Starts for Selwyn23_68:

(Start: 3 @41847 has 41 MA's), (8, 42003), (13, 42102), (16, 42180), (22, 42282), (23, 42291), (24, 42330), (27, 42435), (34, 42576), (37, 42648), (38, 42657),

Gene: Shotgun_67 Start: 41614, Stop: 42453, Start Num: 3

Candidate Starts for Shotgun_67:

(Start: 3 @41614 has 41 MA's), (8, 41770), (13, 41869), (16, 41947), (22, 42049), (23, 42058), (24, 42097), (27, 42202), (34, 42343), (37, 42415), (38, 42424),

Gene: Shrubaron_69 Start: 42828, Stop: 43631, Start Num: 3

Candidate Starts for Shrubaron_69:

(Start: 3 @42828 has 41 MA's), (8, 42984), (11, 43044), (15, 43137), (16, 43161), (17, 43215), (21, 43260), (22, 43263), (24, 43311), (30, 43479), (32, 43500),

Gene: SirFrank_68 Start: 41898, Stop: 42743, Start Num: 3

Candidate Starts for SirFrank_68:

(Start: 3 @41898 has 41 MA's), (4, 41925), (7, 42045), (8, 42054), (11, 42114), (13, 42153), (16, 42231), (17, 42285), (22, 42333), (24, 42381), (27, 42486), (29, 42534), (35, 42663), (37, 42705), (38, 42714),

Gene: Smarties_77 Start: 43541, Stop: 44338, Start Num: 3

Candidate Starts for Smarties_77:

(Start: 3 @43541 has 41 MA's), (6, 43679), (8, 43697), (9, 43736), (11, 43757), (13, 43796), (16, 43874), (17, 43928), (22, 43976), (27, 44123), (28, 44129), (38, 44309),

Gene: Sunny_ Start: 43853, Stop: 44608, Start Num: 3

Candidate Starts for Sunny_:

(1, 43751), (2, 43775), (Start: 3 @43853 has 41 MA's), (8, 44009), (14, 44126), (16, 44186), (22, 44288), (24, 44336), (31, 44462), (32, 44477), (33, 44492), (36, 44546),

Gene: Teamocil_71 Start: 41863, Stop: 42645, Start Num: 3

Candidate Starts for Teamocil_71:

(1, 41752), (Start: 3 @41863 has 41 MA's), (7, 42010), (8, 42019), (11, 42079), (12, 42100), (15, 42172), (16, 42196), (17, 42250), (18, 42256), (19, 42283), (21, 42295), (22, 42298), (24, 42346), (38, 42616),

Gene: Tyrumbra_66 Start: 42515, Stop: 43261, Start Num: 3

Candidate Starts for Tyrumbra_66:

(Start: 3 @42515 has 41 MA's), (5, 42563), (7, 42662), (10, 42725), (11, 42731), (16, 42848), (20, 42938), (22, 42950), (24, 42998), (30, 43109),

Gene: Yeti_69 Start: 41652, Stop: 42485, Start Num: 3

Candidate Starts for Yeti_69:

(Start: 3 @41652 has 41 MA's), (8, 41808), (13, 41907), (16, 41985), (22, 42087), (23, 42096), (24, 42135), (27, 42234), (34, 42375), (37, 42447), (38, 42456),