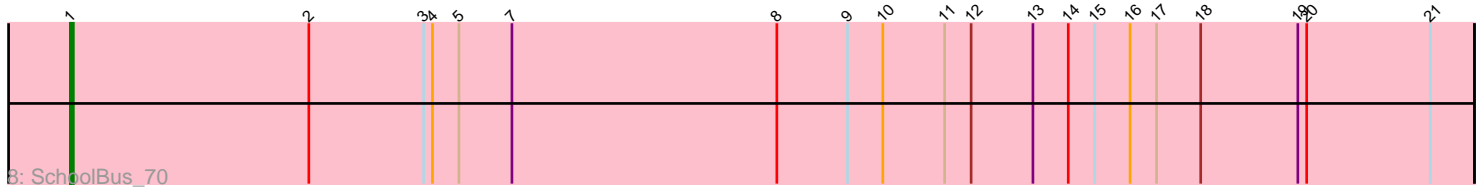
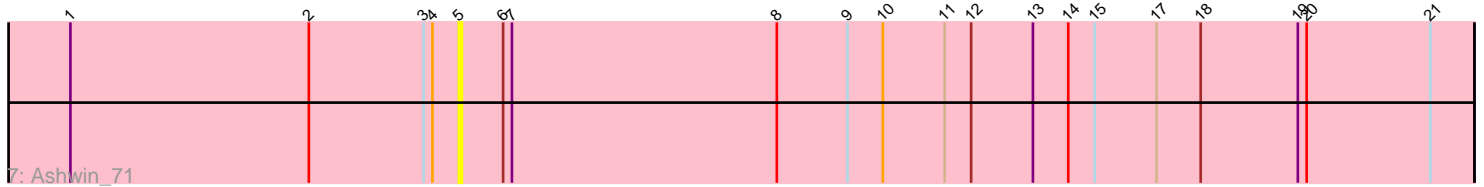
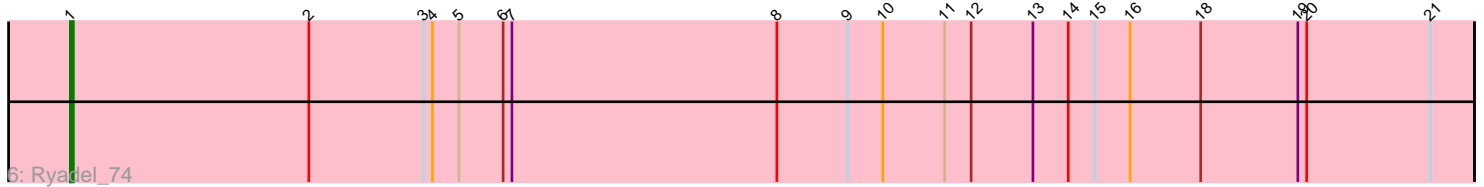
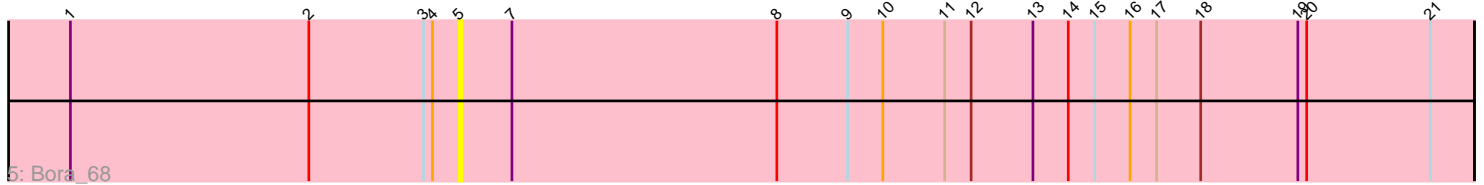
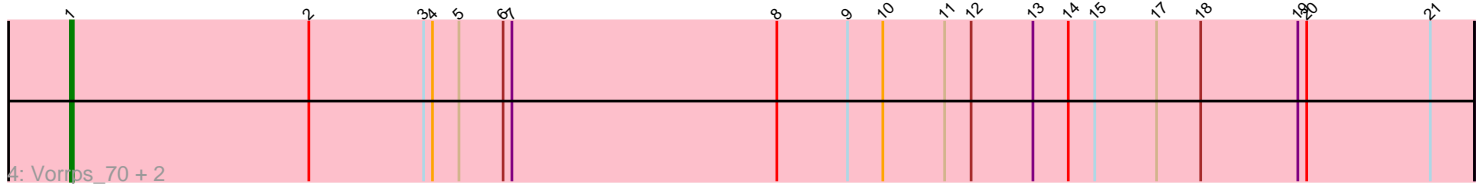
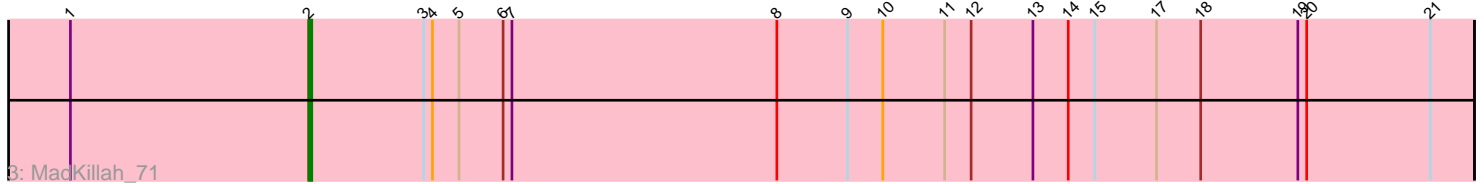
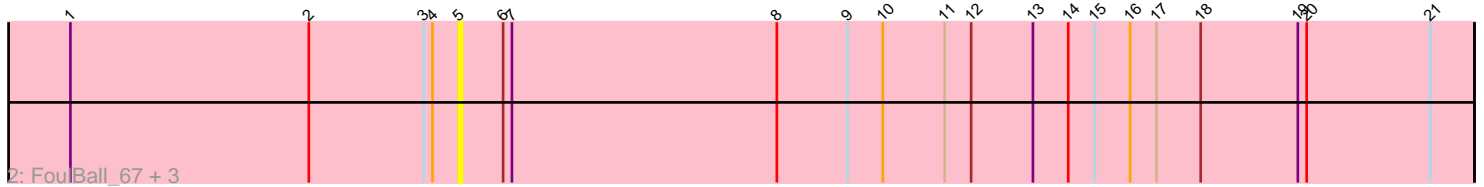
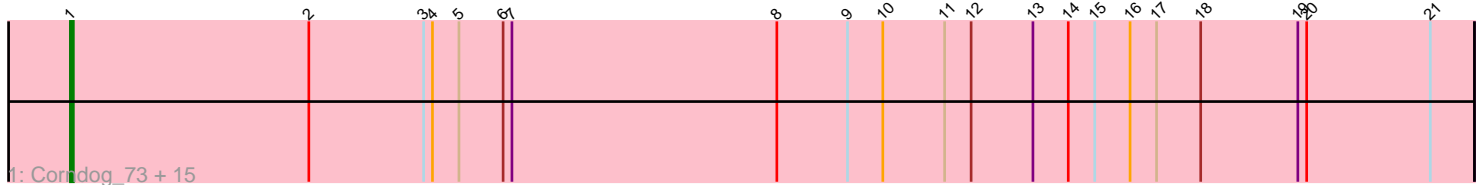


Pham 3430



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 3430 Report

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

Pham number 3430 has 28 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Corndog_73, Zakhe101_69, Firecracker_72, Murai_71, Catdawg_70, Familton_71, YungJamal_75, Dylan_70, NiebruSaylor_69, Blessica_71, JangDynasty_70, TelAviv_67, Krili_69, Idergollasper_70, Winget_71, Shida_70
- Track 2 : FoulBall_67, Alkhayr_68, Wildflower_68, Schuy_68
- Track 3 : MadKillah_71
- Track 4 : Vorrps_70, Smooch_73, Mori_70
- Track 5 : Bora_68
- Track 6 : Ryadel_74
- Track 7 : Ashwin_71
- Track 8 : SchoolBus_70

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

The start number called the most often in the published annotations is 1, it was called in 21 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Blessica_71, Catdawg_70, Corndog_73, Dylan_70, Familton_71, Firecracker_72, Idergollasper_70, JangDynasty_70, Krili_69, Mori_70, Murai_71, NiebruSaylor_69, Ryadel_74, SchoolBus_70, Shida_70, Smooch_73, TelAviv_67, Vorrps_70, Winget_71, YungJamal_75, Zakhe101_69,

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

- Alkhayr_68, Ashwin_71, Bora_68, FoulBall_67, MadKillah_71, Schuy_68, Wildflower_68,

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

-

Summary by start number:

Start 1:

- Found in 28 of 28 (100.0%) of genes in pham
- Manual Annotations of this start: 21 of 22

- Called 75.0% of time when present
- Phage (with cluster) where this start called: Blessica_71 (O), Catdawg_70 (O), Corndog_73 (O), Dylan_70 (O), Familton_71 (O), Firecracker_72 (O), Idergollasper_70 (O), JangDynasty_70 (O), Krili_69 (O), Mori_70 (O), Murai_71 (O), NiebruSaylor_69 (O), Ryadel_74 (O), SchoolBus_70 (O), Shida_70 (O), Smooch_73 (O), TelAviv_67 (O), Vorrrps_70 (O), Winget_71 (O), YungJamal_75 (O), Zakhe101_69 (O),

Start 2:

- Found in 28 of 28 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 3.6% of time when present
- Phage (with cluster) where this start called: MadKillah_71 (O),

Start 5:

- Found in 28 of 28 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 21.4% of time when present
- Phage (with cluster) where this start called: Alkhayr_68 (O), Ashwin_71 (O), Bora_68 (O), FoulBall_67 (O), Schuy_68 (O), Wildflower_68 (O),

Summary by clusters:

There is one cluster represented in this pham: O

Info for manual annotations of cluster O:

- Start number 1 was manually annotated 21 times for cluster O.
- Start number 2 was manually annotated 1 time for cluster O.

Gene Information:

Gene: Alkhayr_68 Start: 44921, Stop: 45265, Start Num: 5

Candidate Starts for Alkhayr_68:

(Start: 1 @44789 has 21 MA's), (Start: 2 @44870 has 1 MA's), (3, 44909), (4, 44912), (5, 44921), (6, 44936), (7, 44939), (8, 45029), (9, 45053), (10, 45065), (11, 45086), (12, 45095), (13, 45116), (14, 45128), (15, 45137), (16, 45149), (17, 45158), (18, 45173), (19, 45206), (20, 45209), (21, 45251),

Gene: Ashwin_71 Start: 45691, Stop: 46035, Start Num: 5

Candidate Starts for Ashwin_71:

(Start: 1 @45559 has 21 MA's), (Start: 2 @45640 has 1 MA's), (3, 45679), (4, 45682), (5, 45691), (6, 45706), (7, 45709), (8, 45799), (9, 45823), (10, 45835), (11, 45856), (12, 45865), (13, 45886), (14, 45898), (15, 45907), (17, 45928), (18, 45943), (19, 45976), (20, 45979), (21, 46021),

Gene: Blessica_71 Start: 45388, Stop: 45864, Start Num: 1

Candidate Starts for Blessica_71:

(Start: 1 @45388 has 21 MA's), (Start: 2 @45469 has 1 MA's), (3, 45508), (4, 45511), (5, 45520), (6, 45535), (7, 45538), (8, 45628), (9, 45652), (10, 45664), (11, 45685), (12, 45694), (13, 45715), (14, 45727), (15, 45736), (16, 45748), (17, 45757), (18, 45772), (19, 45805), (20, 45808), (21, 45850),

Gene: Bora_68 Start: 44901, Stop: 45245, Start Num: 5

Candidate Starts for Bora_68:

(Start: 1 @44769 has 21 MA's), (Start: 2 @44850 has 1 MA's), (3, 44889), (4, 44892), (5, 44901), (7, 44919), (8, 45009), (9, 45033), (10, 45045), (11, 45066), (12, 45075), (13, 45096), (14, 45108), (15, 45117), (16, 45129), (17, 45138), (18, 45153), (19, 45186), (20, 45189), (21, 45231),

Gene: Catdawg_70 Start: 45124, Stop: 45600, Start Num: 1

Candidate Starts for Catdawg_70:

(Start: 1 @45124 has 21 MA's), (Start: 2 @45205 has 1 MA's), (3, 45244), (4, 45247), (5, 45256), (6, 45271), (7, 45274), (8, 45364), (9, 45388), (10, 45400), (11, 45421), (12, 45430), (13, 45451), (14, 45463), (15, 45472), (16, 45484), (17, 45493), (18, 45508), (19, 45541), (20, 45544), (21, 45586),

Gene: Corndog_73 Start: 46118, Stop: 46594, Start Num: 1

Candidate Starts for Corndog_73:

(Start: 1 @46118 has 21 MA's), (Start: 2 @46199 has 1 MA's), (3, 46238), (4, 46241), (5, 46250), (6, 46265), (7, 46268), (8, 46358), (9, 46382), (10, 46394), (11, 46415), (12, 46424), (13, 46445), (14, 46457), (15, 46466), (16, 46478), (17, 46487), (18, 46502), (19, 46535), (20, 46538), (21, 46580),

Gene: Dylan_70 Start: 45171, Stop: 45647, Start Num: 1

Candidate Starts for Dylan_70:

(Start: 1 @45171 has 21 MA's), (Start: 2 @45252 has 1 MA's), (3, 45291), (4, 45294), (5, 45303), (6, 45318), (7, 45321), (8, 45411), (9, 45435), (10, 45447), (11, 45468), (12, 45477), (13, 45498), (14, 45510), (15, 45519), (16, 45531), (17, 45540), (18, 45555), (19, 45588), (20, 45591), (21, 45633),

Gene: Familton_71 Start: 45081, Stop: 45557, Start Num: 1

Candidate Starts for Familton_71:

(Start: 1 @45081 has 21 MA's), (Start: 2 @45162 has 1 MA's), (3, 45201), (4, 45204), (5, 45213), (6, 45228), (7, 45231), (8, 45321), (9, 45345), (10, 45357), (11, 45378), (12, 45387), (13, 45408), (14, 45420), (15, 45429), (16, 45441), (17, 45450), (18, 45465), (19, 45498), (20, 45501), (21, 45543),

Gene: Firecracker_72 Start: 45471, Stop: 45947, Start Num: 1

Candidate Starts for Firecracker_72:

(Start: 1 @45471 has 21 MA's), (Start: 2 @45552 has 1 MA's), (3, 45591), (4, 45594), (5, 45603), (6, 45618), (7, 45621), (8, 45711), (9, 45735), (10, 45747), (11, 45768), (12, 45777), (13, 45798), (14, 45810), (15, 45819), (16, 45831), (17, 45840), (18, 45855), (19, 45888), (20, 45891), (21, 45933),

Gene: FoulBall_67 Start: 45207, Stop: 45551, Start Num: 5

Candidate Starts for FoulBall_67:

(Start: 1 @45075 has 21 MA's), (Start: 2 @45156 has 1 MA's), (3, 45195), (4, 45198), (5, 45207), (6, 45222), (7, 45225), (8, 45315), (9, 45339), (10, 45351), (11, 45372), (12, 45381), (13, 45402), (14, 45414), (15, 45423), (16, 45435), (17, 45444), (18, 45459), (19, 45492), (20, 45495), (21, 45537),

Gene: Idergollasper_70 Start: 45075, Stop: 45551, Start Num: 1

Candidate Starts for Idergollasper_70:

(Start: 1 @45075 has 21 MA's), (Start: 2 @45156 has 1 MA's), (3, 45195), (4, 45198), (5, 45207), (6, 45222), (7, 45225), (8, 45315), (9, 45339), (10, 45351), (11, 45372), (12, 45381), (13, 45402), (14, 45414), (15, 45423), (16, 45435), (17, 45444), (18, 45459), (19, 45492), (20, 45495), (21, 45537),

Gene: JangDynasty_70 Start: 45161, Stop: 45637, Start Num: 1

Candidate Starts for JangDynasty_70:

(Start: 1 @45161 has 21 MA's), (Start: 2 @45242 has 1 MA's), (3, 45281), (4, 45284), (5, 45293), (6, 45308), (7, 45311), (8, 45401), (9, 45425), (10, 45437), (11, 45458), (12, 45467), (13, 45488), (14, 45500), (15, 45509), (16, 45521), (17, 45530), (18, 45545), (19, 45578), (20, 45581), (21, 45623),

Gene: Krili_69 Start: 44585, Stop: 45061, Start Num: 1

Candidate Starts for Krili_69:

(Start: 1 @44585 has 21 MA's), (Start: 2 @44666 has 1 MA's), (3, 44705), (4, 44708), (5, 44717), (6, 44732), (7, 44735), (8, 44825), (9, 44849), (10, 44861), (11, 44882), (12, 44891), (13, 44912), (14, 44924), (15, 44933), (16, 44945), (17, 44954), (18, 44969), (19, 45002), (20, 45005), (21, 45047),

Gene: MadKillah_71 Start: 44935, Stop: 45330, Start Num: 2

Candidate Starts for MadKillah_71:

(Start: 1 @44854 has 21 MA's), (Start: 2 @44935 has 1 MA's), (3, 44974), (4, 44977), (5, 44986), (6, 45001), (7, 45004), (8, 45094), (9, 45118), (10, 45130), (11, 45151), (12, 45160), (13, 45181), (14, 45193), (15, 45202), (17, 45223), (18, 45238), (19, 45271), (20, 45274), (21, 45316),

Gene: Mori_70 Start: 45116, Stop: 45592, Start Num: 1

Candidate Starts for Mori_70:

(Start: 1 @45116 has 21 MA's), (Start: 2 @45197 has 1 MA's), (3, 45236), (4, 45239), (5, 45248), (6, 45263), (7, 45266), (8, 45356), (9, 45380), (10, 45392), (11, 45413), (12, 45422), (13, 45443), (14, 45455), (15, 45464), (17, 45485), (18, 45500), (19, 45533), (20, 45536), (21, 45578),

Gene: Murai_71 Start: 45297, Stop: 45773, Start Num: 1

Candidate Starts for Murai_71:

(Start: 1 @45297 has 21 MA's), (Start: 2 @45378 has 1 MA's), (3, 45417), (4, 45420), (5, 45429), (6, 45444), (7, 45447), (8, 45537), (9, 45561), (10, 45573), (11, 45594), (12, 45603), (13, 45624), (14, 45636), (15, 45645), (16, 45657), (17, 45666), (18, 45681), (19, 45714), (20, 45717), (21, 45759),

Gene: NiebruSaylor_69 Start: 44504, Stop: 44980, Start Num: 1

Candidate Starts for NiebruSaylor_69:

(Start: 1 @44504 has 21 MA's), (Start: 2 @44585 has 1 MA's), (3, 44624), (4, 44627), (5, 44636), (6, 44651), (7, 44654), (8, 44744), (9, 44768), (10, 44780), (11, 44801), (12, 44810), (13, 44831), (14, 44843), (15, 44852), (16, 44864), (17, 44873), (18, 44888), (19, 44921), (20, 44924), (21, 44966),

Gene: Ryadel_74 Start: 45909, Stop: 46385, Start Num: 1

Candidate Starts for Ryadel_74:

(Start: 1 @45909 has 21 MA's), (Start: 2 @45990 has 1 MA's), (3, 46029), (4, 46032), (5, 46041), (6, 46056), (7, 46059), (8, 46149), (9, 46173), (10, 46185), (11, 46206), (12, 46215), (13, 46236), (14, 46248), (15, 46257), (16, 46269), (18, 46293), (19, 46326), (20, 46329), (21, 46371),

Gene: SchoolBus_70 Start: 45057, Stop: 45533, Start Num: 1

Candidate Starts for SchoolBus_70:

(Start: 1 @45057 has 21 MA's), (Start: 2 @45138 has 1 MA's), (3, 45177), (4, 45180), (5, 45189), (7, 45207), (8, 45297), (9, 45321), (10, 45333), (11, 45354), (12, 45363), (13, 45384), (14, 45396), (15, 45405), (16, 45417), (17, 45426), (18, 45441), (19, 45474), (20, 45477), (21, 45519),

Gene: Schuy_68 Start: 44992, Stop: 45336, Start Num: 5

Candidate Starts for Schuy_68:

(Start: 1 @44860 has 21 MA's), (Start: 2 @44941 has 1 MA's), (3, 44980), (4, 44983), (5, 44992), (6, 45007), (7, 45010), (8, 45100), (9, 45124), (10, 45136), (11, 45157), (12, 45166), (13, 45187), (14, 45199), (15, 45208), (16, 45220), (17, 45229), (18, 45244), (19, 45277), (20, 45280), (21, 45322),

Gene: Shida_70 Start: 44767, Stop: 45243, Start Num: 1

Candidate Starts for Shida_70:

(Start: 1 @44767 has 21 MA's), (Start: 2 @44848 has 1 MA's), (3, 44887), (4, 44890), (5, 44899), (6, 44914), (7, 44917), (8, 45007), (9, 45031), (10, 45043), (11, 45064), (12, 45073), (13, 45094), (14, 45106), (15, 45115), (16, 45127), (17, 45136), (18, 45151), (19, 45184), (20, 45187), (21, 45229),

Gene: Smooch_73 Start: 46813, Stop: 47289, Start Num: 1

Candidate Starts for Smooch_73:

(Start: 1 @46813 has 21 MA's), (Start: 2 @46894 has 1 MA's), (3, 46933), (4, 46936), (5, 46945), (6, 46960), (7, 46963), (8, 47053), (9, 47077), (10, 47089), (11, 47110), (12, 47119), (13, 47140), (14, 47152), (15, 47161), (17, 47182), (18, 47197), (19, 47230), (20, 47233), (21, 47275),

Gene: TelAviv_67 Start: 45042, Stop: 45518, Start Num: 1

Candidate Starts for TelAviv_67:

(Start: 1 @45042 has 21 MA's), (Start: 2 @45123 has 1 MA's), (3, 45162), (4, 45165), (5, 45174), (6, 45189), (7, 45192), (8, 45282), (9, 45306), (10, 45318), (11, 45339), (12, 45348), (13, 45369), (14, 45381), (15, 45390), (16, 45402), (17, 45411), (18, 45426), (19, 45459), (20, 45462), (21, 45504),

Gene: Vorrrps_70 Start: 45117, Stop: 45593, Start Num: 1

Candidate Starts for Vorrrps_70:

(Start: 1 @45117 has 21 MA's), (Start: 2 @45198 has 1 MA's), (3, 45237), (4, 45240), (5, 45249), (6, 45264), (7, 45267), (8, 45357), (9, 45381), (10, 45393), (11, 45414), (12, 45423), (13, 45444), (14, 45456), (15, 45465), (17, 45486), (18, 45501), (19, 45534), (20, 45537), (21, 45579),

Gene: Wildflower_68 Start: 44761, Stop: 45105, Start Num: 5

Candidate Starts for Wildflower_68:

(Start: 1 @44629 has 21 MA's), (Start: 2 @44710 has 1 MA's), (3, 44749), (4, 44752), (5, 44761), (6, 44776), (7, 44779), (8, 44869), (9, 44893), (10, 44905), (11, 44926), (12, 44935), (13, 44956), (14, 44968), (15, 44977), (16, 44989), (17, 44998), (18, 45013), (19, 45046), (20, 45049), (21, 45091),

Gene: Winget_71 Start: 45335, Stop: 45811, Start Num: 1

Candidate Starts for Winget_71:

(Start: 1 @45335 has 21 MA's), (Start: 2 @45416 has 1 MA's), (3, 45455), (4, 45458), (5, 45467), (6, 45482), (7, 45485), (8, 45575), (9, 45599), (10, 45611), (11, 45632), (12, 45641), (13, 45662), (14, 45674), (15, 45683), (16, 45695), (17, 45704), (18, 45719), (19, 45752), (20, 45755), (21, 45797),

Gene: YungJamal_75 Start: 46527, Stop: 47003, Start Num: 1

Candidate Starts for YungJamal_75:

(Start: 1 @46527 has 21 MA's), (Start: 2 @46608 has 1 MA's), (3, 46647), (4, 46650), (5, 46659), (6, 46674), (7, 46677), (8, 46767), (9, 46791), (10, 46803), (11, 46824), (12, 46833), (13, 46854), (14, 46866), (15, 46875), (16, 46887), (17, 46896), (18, 46911), (19, 46944), (20, 46947), (21, 46989),

Gene: Zakhe101_69 Start: 45175, Stop: 45651, Start Num: 1

Candidate Starts for Zakhe101_69:

(Start: 1 @45175 has 21 MA's), (Start: 2 @45256 has 1 MA's), (3, 45295), (4, 45298), (5, 45307), (6, 45322), (7, 45325), (8, 45415), (9, 45439), (10, 45451), (11, 45472), (12, 45481), (13, 45502), (14, 45514), (15, 45523), (16, 45535), (17, 45544), (18, 45559), (19, 45592), (20, 45595), (21, 45637),