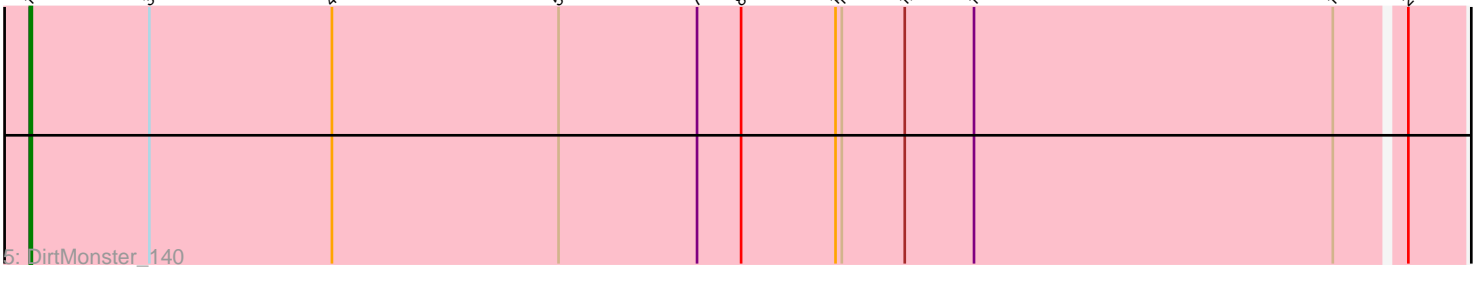
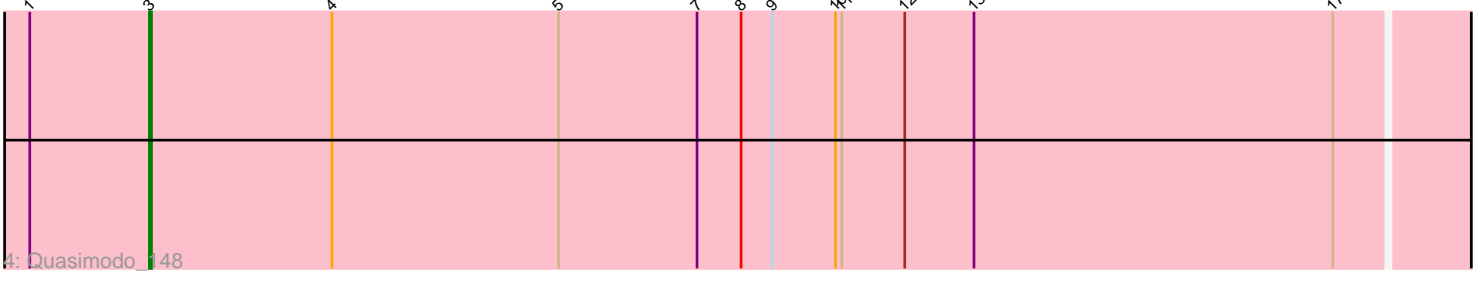
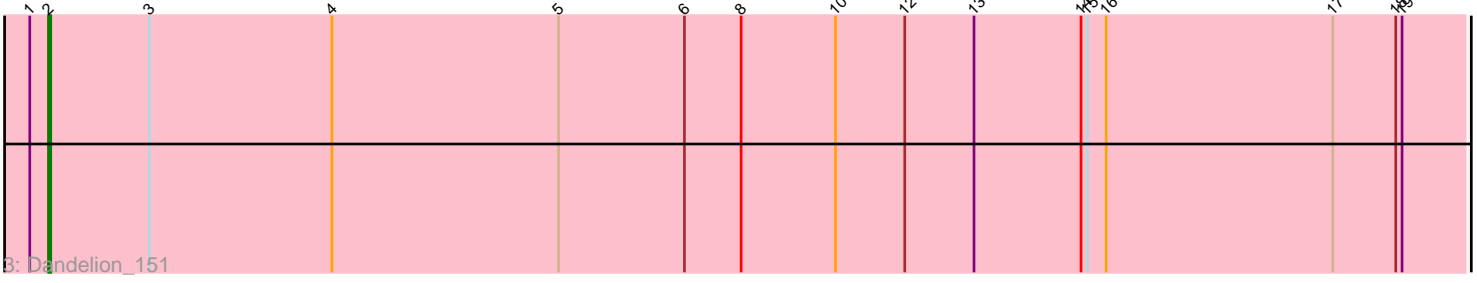
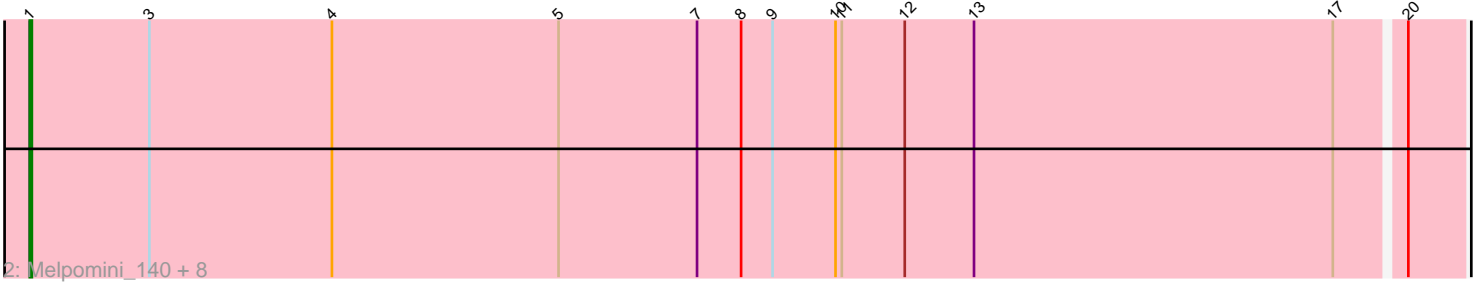
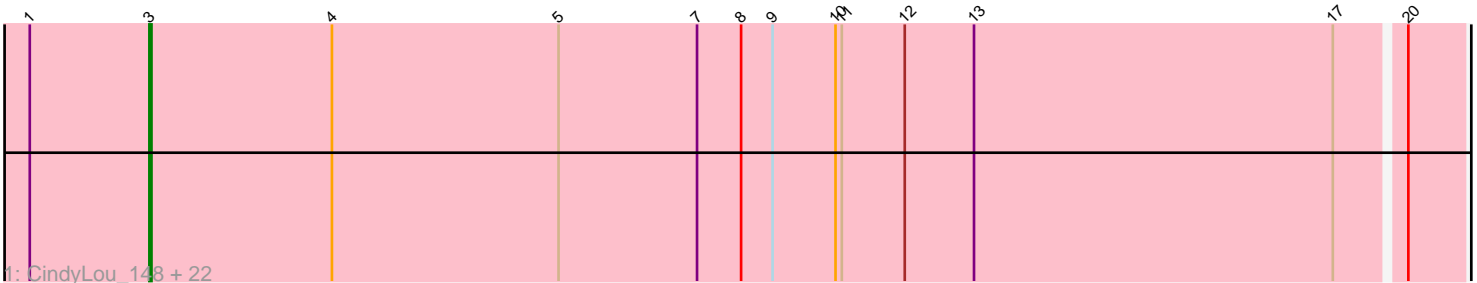


Pham 86061



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 86061 Report

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

Pham number 86061 has 35 members, 1 are drafts.

Phages represented in each track:

- Track 1 : CindyLou_148, Tyke_146, Fludd_148, Cactojaque_142, SilverDipper_148, Turret_142, Naija_146, ErnieJ_140, Blackbrain_142, Dietrick_138, ChaylaJr_142, Capablanca_149, SmallFry_146, Trinitium_144, Pivoine_146, Audrick_149, Janiyra_149, InigoMontoya_149, EasyJones_149, Phlegm_150, Matsumoto_143, Napoleon13_142, Ghost_145
- Track 2 : Melpomini_140, RoMag_141, McGee_148, Ewok_147, DTDevon_146, Flabslab_141, Ading_146, Sebata_146, Babyland_148
- Track 3 : Dandelion_151
- Track 4 : Quasimodo_148
- Track 5 : DirtMonster_140

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 23 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Audrick_149, Blackbrain_142, Cactojaque_142, Capablanca_149, ChaylaJr_142, CindyLou_148, Dietrick_138, EasyJones_149, ErnieJ_140, Fludd_148, Ghost_145, InigoMontoya_149, Janiyra_149, Matsumoto_143, Naija_146, Napoleon13_142, Phlegm_150, Pivoine_146, Quasimodo_148, SilverDipper_148, SmallFry_146, Trinitium_144, Turret_142, Tyke_146,

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

- Ading_146, Babyland_148, DTDevon_146, Dandelion_151, DirtMonster_140, Ewok_147, Flabslab_141, McGee_148, Melpomini_140, RoMag_141, Sebata_146,

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

-

Summary by start number:

Start 1:

- Found in 35 of 35 (100.0%) of genes in pham

- Manual Annotations of this start: 10 of 34
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Ading_146 (C1), Babyland_148 (C1), DTDevon_146 (C1), DirtMonster_140 (C1), Ewok_147 (C1), Flabslab_141 (C1), McGee_148 (C1), Melpomini_140 (C1), RoMag_141 (C1), Sebata_146 (C1),

Start 2:

- Found in 1 of 35 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dandelion_151 (C1),

Start 3:

- Found in 35 of 35 (100.0%) of genes in pham
- Manual Annotations of this start: 23 of 34
- Called 68.6% of time when present
- Phage (with cluster) where this start called: Audrick_149 (C1), Blackbrain_142 (C1), Cactojaque_142 (C1), Capablanca_149 (C1), ChaylaJr_142 (C1), CindyLou_148 (C1), Dietrick_138 (C1), EasyJones_149 (C1), ErnieJ_140 (C1), Fludd_148 (C1), Ghost_145 (C1), InigoMontoya_149 (C1), Janiyr_149 (C1), Matsumoto_143 (C1), Naija_146 (C1), Napoleon13_142 (C1), Phlegm_150 (C1), Pivoine_146 (C1), Quasimodo_148 (C1), SilverDipper_148 (C1), SmallFry_146 (C1), Trinitium_144 (C1), Turret_142 (C1), Tyke_146 (C1),

Summary by clusters:

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:

- Start number 1 was manually annotated 10 times for cluster C1.
- Start number 2 was manually annotated 1 time for cluster C1.
- Start number 3 was manually annotated 23 times for cluster C1.

Gene Information:

Gene: Ading_146 Start: 88367, Stop: 89044, Start Num: 1

Candidate Starts for Ading_146:

(Start: 1 @88367 has 10 MA's), (Start: 3 @88424 has 23 MA's), (4, 88511), (5, 88619), (7, 88685), (8, 88706), (9, 88721), (10, 88751), (11, 88754), (12, 88784), (13, 88817), (17, 88988), (20, 89018),

Gene: Audrick_149 Start: 88144, Stop: 88764, Start Num: 3

Candidate Starts for Audrick_149:

(Start: 1 @88087 has 10 MA's), (Start: 3 @88144 has 23 MA's), (4, 88231), (5, 88339), (7, 88405), (8, 88426), (9, 88441), (10, 88471), (11, 88474), (12, 88504), (13, 88537), (17, 88708), (20, 88738),

Gene: Babyland_148 Start: 88186, Stop: 88863, Start Num: 1

Candidate Starts for Babyland_148:

(Start: 1 @88186 has 10 MA's), (Start: 3 @88243 has 23 MA's), (4, 88330), (5, 88438), (7, 88504), (8, 88525), (9, 88540), (10, 88570), (11, 88573), (12, 88603), (13, 88636), (17, 88807), (20, 88837),

Gene: Blackbrain_142 Start: 87628, Stop: 88248, Start Num: 3

Candidate Starts for Blackbrain_142:

(Start: 1 @87571 has 10 MA's), (Start: 3 @87628 has 23 MA's), (4, 87715), (5, 87823), (7, 87889), (8, 87910), (9, 87925), (10, 87955), (11, 87958), (12, 87988), (13, 88021), (17, 88192), (20, 88222),

Gene: Cactojaque_142 Start: 87735, Stop: 88355, Start Num: 3

Candidate Starts for Cactojaque_142:

(Start: 1 @87678 has 10 MA's), (Start: 3 @87735 has 23 MA's), (4, 87822), (5, 87930), (7, 87996), (8, 88017), (9, 88032), (10, 88062), (11, 88065), (12, 88095), (13, 88128), (17, 88299), (20, 88329),

Gene: Capablanca_149 Start: 89915, Stop: 90535, Start Num: 3

Candidate Starts for Capablanca_149:

(Start: 1 @89858 has 10 MA's), (Start: 3 @89915 has 23 MA's), (4, 90002), (5, 90110), (7, 90176), (8, 90197), (9, 90212), (10, 90242), (11, 90245), (12, 90275), (13, 90308), (17, 90479), (20, 90509),

Gene: ChaylaJr_142 Start: 87551, Stop: 88171, Start Num: 3

Candidate Starts for ChaylaJr_142:

(Start: 1 @87494 has 10 MA's), (Start: 3 @87551 has 23 MA's), (4, 87638), (5, 87746), (7, 87812), (8, 87833), (9, 87848), (10, 87878), (11, 87881), (12, 87911), (13, 87944), (17, 88115), (20, 88145),

Gene: CindyLou_148 Start: 89494, Stop: 90114, Start Num: 3

Candidate Starts for CindyLou_148:

(Start: 1 @89437 has 10 MA's), (Start: 3 @89494 has 23 MA's), (4, 89581), (5, 89689), (7, 89755), (8, 89776), (9, 89791), (10, 89821), (11, 89824), (12, 89854), (13, 89887), (17, 90058), (20, 90088),

Gene: DTDevon_146 Start: 89159, Stop: 89836, Start Num: 1

Candidate Starts for DTDevon_146:

(Start: 1 @89159 has 10 MA's), (Start: 3 @89216 has 23 MA's), (4, 89303), (5, 89411), (7, 89477), (8, 89498), (9, 89513), (10, 89543), (11, 89546), (12, 89576), (13, 89609), (17, 89780), (20, 89810),

Gene: Dandelion_151 Start: 91301, Stop: 91975, Start Num: 2

Candidate Starts for Dandelion_151:

(Start: 1 @91292 has 10 MA's), (Start: 2 @91301 has 1 MA's), (Start: 3 @91349 has 23 MA's), (4, 91436), (5, 91544), (6, 91604), (8, 91631), (10, 91676), (12, 91709), (13, 91742), (14, 91793), (15, 91796), (16, 91805), (17, 91913), (18, 91943), (19, 91946),

Gene: Dietrick_138 Start: 86852, Stop: 87472, Start Num: 3

Candidate Starts for Dietrick_138:

(Start: 1 @86795 has 10 MA's), (Start: 3 @86852 has 23 MA's), (4, 86939), (5, 87047), (7, 87113), (8, 87134), (9, 87149), (10, 87179), (11, 87182), (12, 87212), (13, 87245), (17, 87416), (20, 87446),

Gene: DirtMonster_140 Start: 88124, Stop: 88801, Start Num: 1

Candidate Starts for DirtMonster_140:

(Start: 1 @88124 has 10 MA's), (Start: 3 @88181 has 23 MA's), (4, 88268), (5, 88376), (7, 88442), (8, 88463), (10, 88508), (11, 88511), (12, 88541), (13, 88574), (17, 88745), (20, 88775),

Gene: EasyJones_149 Start: 88397, Stop: 89017, Start Num: 3

Candidate Starts for EasyJones_149:

(Start: 1 @88340 has 10 MA's), (Start: 3 @88397 has 23 MA's), (4, 88484), (5, 88592), (7, 88658), (8, 88679), (9, 88694), (10, 88724), (11, 88727), (12, 88757), (13, 88790), (17, 88961), (20, 88991),

Gene: ErnieJ_140 Start: 87127, Stop: 87747, Start Num: 3

Candidate Starts for ErnieJ_140:

(Start: 1 @87070 has 10 MA's), (Start: 3 @87127 has 23 MA's), (4, 87214), (5, 87322), (7, 87388), (8, 87409), (9, 87424), (10, 87454), (11, 87457), (12, 87487), (13, 87520), (17, 87691), (20, 87721),

Gene: Ewok_147 Start: 88478, Stop: 89155, Start Num: 1

Candidate Starts for Ewok_147:

(Start: 1 @88478 has 10 MA's), (Start: 3 @88535 has 23 MA's), (4, 88622), (5, 88730), (7, 88796), (8, 88817), (9, 88832), (10, 88862), (11, 88865), (12, 88895), (13, 88928), (17, 89099), (20, 89129),

Gene: Flabslab_141 Start: 86660, Stop: 87337, Start Num: 1

Candidate Starts for Flabslab_141:

(Start: 1 @86660 has 10 MA's), (Start: 3 @86717 has 23 MA's), (4, 86804), (5, 86912), (7, 86978), (8, 86999), (9, 87014), (10, 87044), (11, 87047), (12, 87077), (13, 87110), (17, 87281), (20, 87311),

Gene: Fludd_148 Start: 88587, Stop: 89207, Start Num: 3

Candidate Starts for Fludd_148:

(Start: 1 @88530 has 10 MA's), (Start: 3 @88587 has 23 MA's), (4, 88674), (5, 88782), (7, 88848), (8, 88869), (9, 88884), (10, 88914), (11, 88917), (12, 88947), (13, 88980), (17, 89151), (20, 89181),

Gene: Ghost_145 Start: 88165, Stop: 88785, Start Num: 3

Candidate Starts for Ghost_145:

(Start: 1 @88108 has 10 MA's), (Start: 3 @88165 has 23 MA's), (4, 88252), (5, 88360), (7, 88426), (8, 88447), (9, 88462), (10, 88492), (11, 88495), (12, 88525), (13, 88558), (17, 88729), (20, 88759),

Gene: InigoMontoya_149 Start: 88126, Stop: 88746, Start Num: 3

Candidate Starts for InigoMontoya_149:

(Start: 1 @88069 has 10 MA's), (Start: 3 @88126 has 23 MA's), (4, 88213), (5, 88321), (7, 88387), (8, 88408), (9, 88423), (10, 88453), (11, 88456), (12, 88486), (13, 88519), (17, 88690), (20, 88720),

Gene: Janiyr_149 Start: 89092, Stop: 89712, Start Num: 3

Candidate Starts for Janiyr_149:

(Start: 1 @89035 has 10 MA's), (Start: 3 @89092 has 23 MA's), (4, 89179), (5, 89287), (7, 89353), (8, 89374), (9, 89389), (10, 89419), (11, 89422), (12, 89452), (13, 89485), (17, 89656), (20, 89686),

Gene: Matsumoto_143 Start: 88002, Stop: 88622, Start Num: 3

Candidate Starts for Matsumoto_143:

(Start: 1 @87945 has 10 MA's), (Start: 3 @88002 has 23 MA's), (4, 88089), (5, 88197), (7, 88263), (8, 88284), (9, 88299), (10, 88329), (11, 88332), (12, 88362), (13, 88395), (17, 88566), (20, 88596),

Gene: McGee_148 Start: 87699, Stop: 88376, Start Num: 1

Candidate Starts for McGee_148:

(Start: 1 @87699 has 10 MA's), (Start: 3 @87756 has 23 MA's), (4, 87843), (5, 87951), (7, 88017), (8, 88038), (9, 88053), (10, 88083), (11, 88086), (12, 88116), (13, 88149), (17, 88320), (20, 88350),

Gene: Melpomini_140 Start: 86223, Stop: 86900, Start Num: 1

Candidate Starts for Melpomini_140:

(Start: 1 @86223 has 10 MA's), (Start: 3 @86280 has 23 MA's), (4, 86367), (5, 86475), (7, 86541), (8, 86562), (9, 86577), (10, 86607), (11, 86610), (12, 86640), (13, 86673), (17, 86844), (20, 86874),

Gene: Naija_146 Start: 88165, Stop: 88785, Start Num: 3

Candidate Starts for Naija_146:

(Start: 1 @88108 has 10 MA's), (Start: 3 @88165 has 23 MA's), (4, 88252), (5, 88360), (7, 88426), (8, 88447), (9, 88462), (10, 88492), (11, 88495), (12, 88525), (13, 88558), (17, 88729), (20, 88759),

Gene: Napoleon13_142 Start: 86718, Stop: 87338, Start Num: 3

Candidate Starts for Napoleon13_142:

(Start: 1 @86661 has 10 MA's), (Start: 3 @86718 has 23 MA's), (4, 86805), (5, 86913), (7, 86979), (8, 87000), (9, 87015), (10, 87045), (11, 87048), (12, 87078), (13, 87111), (17, 87282), (20, 87312),

Gene: Phlegm_150 Start: 88165, Stop: 88785, Start Num: 3

Candidate Starts for Phlegm_150:

(Start: 1 @88108 has 10 MA's), (Start: 3 @88165 has 23 MA's), (4, 88252), (5, 88360), (7, 88426), (8, 88447), (9, 88462), (10, 88492), (11, 88495), (12, 88525), (13, 88558), (17, 88729), (20, 88759),

Gene: Pivoine_146 Start: 88165, Stop: 88785, Start Num: 3

Candidate Starts for Pivoine_146:

(Start: 1 @88108 has 10 MA's), (Start: 3 @88165 has 23 MA's), (4, 88252), (5, 88360), (7, 88426), (8, 88447), (9, 88462), (10, 88492), (11, 88495), (12, 88525), (13, 88558), (17, 88729), (20, 88759),

Gene: Quasimodo_148 Start: 89582, Stop: 90208, Start Num: 3

Candidate Starts for Quasimodo_148:

(Start: 1 @89525 has 10 MA's), (Start: 3 @89582 has 23 MA's), (4, 89669), (5, 89777), (7, 89843), (8, 89864), (9, 89879), (10, 89909), (11, 89912), (12, 89942), (13, 89975), (17, 90146),

Gene: RoMag_141 Start: 88298, Stop: 88975, Start Num: 1

Candidate Starts for RoMag_141:

(Start: 1 @88298 has 10 MA's), (Start: 3 @88355 has 23 MA's), (4, 88442), (5, 88550), (7, 88616), (8, 88637), (9, 88652), (10, 88682), (11, 88685), (12, 88715), (13, 88748), (17, 88919), (20, 88949),

Gene: Sebata_146 Start: 89510, Stop: 90187, Start Num: 1

Candidate Starts for Sebata_146:

(Start: 1 @89510 has 10 MA's), (Start: 3 @89567 has 23 MA's), (4, 89654), (5, 89762), (7, 89828), (8, 89849), (9, 89864), (10, 89894), (11, 89897), (12, 89927), (13, 89960), (17, 90131), (20, 90161),

Gene: SilverDipper_148 Start: 88165, Stop: 88785, Start Num: 3

Candidate Starts for SilverDipper_148:

(Start: 1 @88108 has 10 MA's), (Start: 3 @88165 has 23 MA's), (4, 88252), (5, 88360), (7, 88426), (8, 88447), (9, 88462), (10, 88492), (11, 88495), (12, 88525), (13, 88558), (17, 88729), (20, 88759),

Gene: SmallFry_146 Start: 87667, Stop: 88287, Start Num: 3

Candidate Starts for SmallFry_146:

(Start: 1 @87610 has 10 MA's), (Start: 3 @87667 has 23 MA's), (4, 87754), (5, 87862), (7, 87928), (8, 87949), (9, 87964), (10, 87994), (11, 87997), (12, 88027), (13, 88060), (17, 88231), (20, 88261),

Gene: Trinitium_144 Start: 88091, Stop: 88711, Start Num: 3

Candidate Starts for Trinitium_144:

(Start: 1 @88034 has 10 MA's), (Start: 3 @88091 has 23 MA's), (4, 88178), (5, 88286), (7, 88352), (8, 88373), (9, 88388), (10, 88418), (11, 88421), (12, 88451), (13, 88484), (17, 88655), (20, 88685),

Gene: Turret_142 Start: 87536, Stop: 88156, Start Num: 3

Candidate Starts for Turret_142:

(Start: 1 @87479 has 10 MA's), (Start: 3 @87536 has 23 MA's), (4, 87623), (5, 87731), (7, 87797), (8, 87818), (9, 87833), (10, 87863), (11, 87866), (12, 87896), (13, 87929), (17, 88100), (20, 88130),

Gene: Tyke_146 Start: 89563, Stop: 90183, Start Num: 3

Candidate Starts for Tyke_146:

(Start: 1 @89506 has 10 MA's), (Start: 3 @89563 has 23 MA's), (4, 89650), (5, 89758), (7, 89824), (8, 89845), (9, 89860), (10, 89890), (11, 89893), (12, 89923), (13, 89956), (17, 90127), (20, 90157),