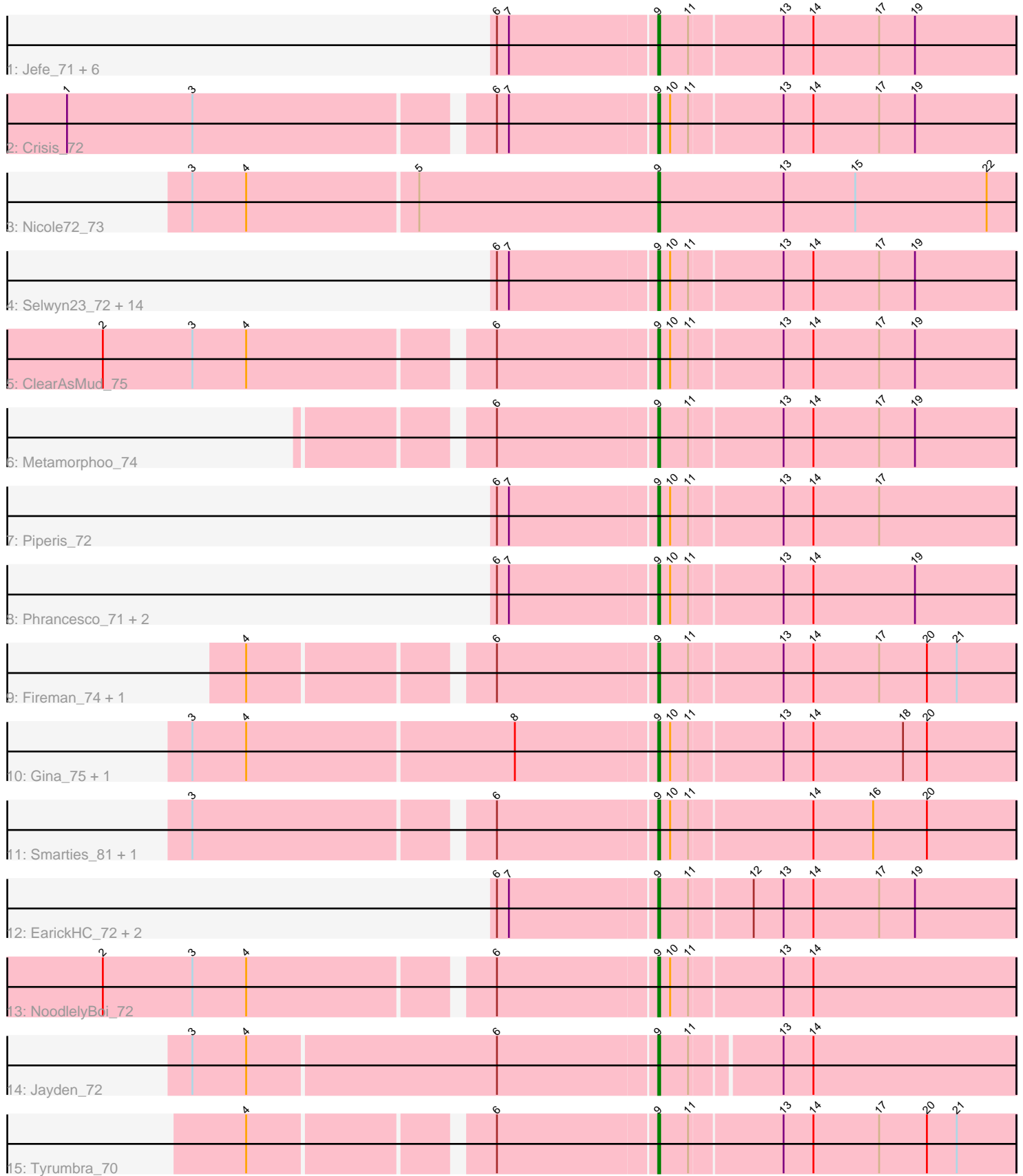


Pham 2448



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 2448 Report

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

Pham number 2448 has 42 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Jefe_71, Yeti_71, CrazyRich_70, LittleFortune_73, Honeyfin_72, Hermeonysus_71, PierreOrion_71
- Track 2 : Crisis_72
- Track 3 : Nicole72_73
- Track 4 : Selwyn23_72, Quhwah_75, Onika_70, Cranjis_72, PiperSansNom_72, Kowalski_70, Shotgun_71, Ganandorf_70, Scumberland_73, Paschalis_71, Antares_71, Ramiel05_70, Savannah_70, BrazzalePHS_70, Jollipop_71
- Track 5 : ClearAsMud_75
- Track 6 : Metamorphoo_74
- Track 7 : Piperis_72
- Track 8 : Phrancesco_71, Pulchra_73, Busephilis_70
- Track 9 : Fireman_74, RobsFeet_75
- Track 10 : Gina_75, Teamocil_75
- Track 11 : Smarties_81, Ariadne_81
- Track 12 : EarickHC_72, KaiHaiDragon_72, Phorgeous_71
- Track 13 : NoodlelyBoi_72
- Track 14 : Jayden_72
- Track 15 : Tyumbra_70

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

The start number called the most often in the published annotations is 9, it was called in 38 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_71, Ariadne_81, BrazzalePHS_70, Busephilis_70, ClearAsMud_75, Cranjis_72, CrazyRich_70, Crisis_72, EarickHC_72, Fireman_74, Ganandorf_70, Gina_75, Hermeonysus_71, Honeyfin_72, Jayden_72, Jefe_71, Jollipop_71, KaiHaiDragon_72, Kowalski_70, LittleFortune_73, Metamorphoo_74, Nicole72_73, NoodlelyBoi_72, Onika_70, Paschalis_71, Phorgeous_71, Phrancesco_71, PierreOrion_71, PiperSansNom_72, Piperis_72, Pulchra_73, Quhwah_75, Ramiel05_70, RobsFeet_75, Savannah_70, Scumberland_73, Selwyn23_72, Shotgun_71, Smarties_81, Teamocil_75, Tyumbra_70, Yeti_71,

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 9:

- Found in 42 of 42 (100.0%) of genes in pham
- Manual Annotations of this start: 38 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antares_71 (EC), Ariadne_81 (EC), BrazzalePHS_70 (EC), Busephilis_70 (EC), ClearAsMud_75 (EC), Cranjis_72 (EC), CrazyRich_70 (EC), Crisis_72 (EC), EarickHC_72 (EC), Fireman_74 (EC), Ganandorf_70 (EC), Gina_75 (EC), Hermeonysus_71 (EC), Honeyfin_72 (EC), Jayden_72 (EC), Jefe_71 (EC), Jollipop_71 (EC), KaiHaiDragon_72 (EC), Kowalski_70 (EC), LittleFortune_73 (EC), Metamorphoo_74 (EC), Nicole72_73 (EC), NoodlelyBoi_72 (EC), Onika_70 (EC), Paschalis_71 (EC), Phorgeous_71 (EC), Phrancesco_71 (EC), PierreOrion_71 (EC), PiperSansNom_72 (EC), Piperis_72 (EC), Pulchra_73 (EC), Quhwah_75 (EC), Ramiel05_70 (EC), RobsFeet_75 (EC), Savannah_70 (EC), Scumberland_73 (EC), Selwyn23_72 (EC), Shotgun_71 (EC), Smarties_81 (EC), Teamocil_75 (EC), Tyrumbra_70 (EC), Yeti_71 (EC),

Summary by clusters:

There is one cluster represented in this pham: EC

Info for manual annotations of cluster EC:

- Start number 9 was manually annotated 38 times for cluster EC.

Gene Information:

Gene: Antares_71 Start: 43482, Stop: 43658, Start Num: 9

Candidate Starts for Antares_71:

(6, 43404), (7, 43410), (Start: 9 @43482 has 38 MA's), (10, 43488), (11, 43497), (13, 43542), (14, 43557), (17, 43590), (19, 43608),

Gene: Ariadne_81 Start: 45071, Stop: 45247, Start Num: 9

Candidate Starts for Ariadne_81:

(3, 44852), (6, 44993), (Start: 9 @45071 has 38 MA's), (10, 45077), (11, 45086), (14, 45146), (16, 45176), (20, 45203),

Gene: BrazzalePHS_70 Start: 43250, Stop: 43426, Start Num: 9

Candidate Starts for BrazzalePHS_70:

(6, 43172), (7, 43178), (Start: 9 @43250 has 38 MA's), (10, 43256), (11, 43265), (13, 43310), (14, 43325), (17, 43358), (19, 43376),

Gene: Busephilis_70 Start: 43189, Stop: 43365, Start Num: 9

Candidate Starts for Busephilis_70:

(6, 43111), (7, 43117), (Start: 9 @43189 has 38 MA's), (10, 43195), (11, 43204), (13, 43249), (14, 43264), (19, 43315),

Gene: ClearAsMud_75 Start: 43770, Stop: 43946, Start Num: 9

Candidate Starts for ClearAsMud_75:

(2, 43506), (3, 43551), (4, 43578), (6, 43692), (Start: 9 @43770 has 38 MA's), (10, 43776), (11, 43785), (13, 43830), (14, 43845), (17, 43878), (19, 43896),

Gene: Cranjis_72 Start: 43437, Stop: 43613, Start Num: 9

Candidate Starts for Cranjis_72:

(6, 43359), (7, 43365), (Start: 9 @43437 has 38 MA's), (10, 43443), (11, 43452), (13, 43497), (14, 43512), (17, 43545), (19, 43563),

Gene: CrazyRich_70 Start: 43243, Stop: 43419, Start Num: 9

Candidate Starts for CrazyRich_70:

(6, 43165), (7, 43171), (Start: 9 @43243 has 38 MA's), (11, 43258), (13, 43303), (14, 43318), (17, 43351), (19, 43369),

Gene: Crisis_72 Start: 43252, Stop: 43428, Start Num: 9

Candidate Starts for Crisis_72:

(1, 42970), (3, 43033), (6, 43174), (7, 43180), (Start: 9 @43252 has 38 MA's), (10, 43258), (11, 43267), (13, 43312), (14, 43327), (17, 43360), (19, 43378),

Gene: EarickHC_72 Start: 43174, Stop: 43350, Start Num: 9

Candidate Starts for EarickHC_72:

(6, 43096), (7, 43102), (Start: 9 @43174 has 38 MA's), (11, 43189), (12, 43219), (13, 43234), (14, 43249), (17, 43282), (19, 43300),

Gene: Fireman_74 Start: 45207, Stop: 45383, Start Num: 9

Candidate Starts for Fireman_74:

(4, 45018), (6, 45129), (Start: 9 @45207 has 38 MA's), (11, 45222), (13, 45267), (14, 45282), (17, 45315), (20, 45339), (21, 45354),

Gene: Ganandorf_70 Start: 43270, Stop: 43446, Start Num: 9

Candidate Starts for Ganandorf_70:

(6, 43192), (7, 43198), (Start: 9 @43270 has 38 MA's), (10, 43276), (11, 43285), (13, 43330), (14, 43345), (17, 43378), (19, 43396),

Gene: Gina_75 Start: 43324, Stop: 43500, Start Num: 9

Candidate Starts for Gina_75:

(3, 43096), (4, 43123), (8, 43255), (Start: 9 @43324 has 38 MA's), (10, 43330), (11, 43339), (13, 43384), (14, 43399), (18, 43444), (20, 43456),

Gene: Hermeonysus_71 Start: 43159, Stop: 43335, Start Num: 9

Candidate Starts for Hermeonysus_71:

(6, 43081), (7, 43087), (Start: 9 @43159 has 38 MA's), (11, 43174), (13, 43219), (14, 43234), (17, 43267), (19, 43285),

Gene: Honeyfin_72 Start: 43419, Stop: 43595, Start Num: 9

Candidate Starts for Honeyfin_72:

(6, 43341), (7, 43347), (Start: 9 @43419 has 38 MA's), (11, 43434), (13, 43479), (14, 43494), (17, 43527), (19, 43545),

Gene: Jayden_72 Start: 43680, Stop: 43853, Start Num: 9

Candidate Starts for Jayden_72:

(3, 43452), (4, 43479), (6, 43602), (Start: 9 @43680 has 38 MA's), (11, 43695), (13, 43737), (14, 43752),

Gene: Jefe_71 Start: 43220, Stop: 43396, Start Num: 9

Candidate Starts for Jefe_71:

(6, 43142), (7, 43148), (Start: 9 @43220 has 38 MA's), (11, 43235), (13, 43280), (14, 43295), (17, 43328), (19, 43346),

Gene: Jollipop_71 Start: 43608, Stop: 43784, Start Num: 9

Candidate Starts for Jollipop_71:

(6, 43530), (7, 43536), (Start: 9 @43608 has 38 MA's), (10, 43614), (11, 43623), (13, 43668), (14, 43683), (17, 43716), (19, 43734),

Gene: KaiHaiDragon_72 Start: 43174, Stop: 43350, Start Num: 9

Candidate Starts for KaiHaiDragon_72:

(6, 43096), (7, 43102), (Start: 9 @43174 has 38 MA's), (11, 43189), (12, 43219), (13, 43234), (14, 43249), (17, 43282), (19, 43300),

Gene: Kowalski_70 Start: 43245, Stop: 43421, Start Num: 9

Candidate Starts for Kowalski_70:

(6, 43167), (7, 43173), (Start: 9 @43245 has 38 MA's), (10, 43251), (11, 43260), (13, 43305), (14, 43320), (17, 43353), (19, 43371),

Gene: LittleFortune_73 Start: 43530, Stop: 43706, Start Num: 9

Candidate Starts for LittleFortune_73:

(6, 43452), (7, 43458), (Start: 9 @43530 has 38 MA's), (11, 43545), (13, 43590), (14, 43605), (17, 43638), (19, 43656),

Gene: Metamorphoo_74 Start: 44501, Stop: 44677, Start Num: 9

Candidate Starts for Metamorphoo_74:

(6, 44423), (Start: 9 @44501 has 38 MA's), (11, 44516), (13, 44561), (14, 44576), (17, 44609), (19, 44627),

Gene: Nicole72_73 Start: 48942, Stop: 49121, Start Num: 9

Candidate Starts for Nicole72_73:

(3, 48711), (4, 48738), (5, 48822), (Start: 9 @48942 has 38 MA's), (13, 49005), (15, 49041), (22, 49107),

Gene: NoodlelyBoi_72 Start: 44019, Stop: 44195, Start Num: 9

Candidate Starts for NoodlelyBoi_72:

(2, 43755), (3, 43800), (4, 43827), (6, 43941), (Start: 9 @44019 has 38 MA's), (10, 44025), (11, 44034), (13, 44079), (14, 44094),

Gene: Onika_70 Start: 43248, Stop: 43424, Start Num: 9

Candidate Starts for Onika_70:

(6, 43170), (7, 43176), (Start: 9 @43248 has 38 MA's), (10, 43254), (11, 43263), (13, 43308), (14, 43323), (17, 43356), (19, 43374),

Gene: Paschalis_71 Start: 43273, Stop: 43449, Start Num: 9

Candidate Starts for Paschalis_71:

(6, 43195), (7, 43201), (Start: 9 @43273 has 38 MA's), (10, 43279), (11, 43288), (13, 43333), (14, 43348), (17, 43381), (19, 43399),

Gene: Phorgeous_71 Start: 43056, Stop: 43232, Start Num: 9

Candidate Starts for Phorgeous_71:

(6, 42978), (7, 42984), (Start: 9 @43056 has 38 MA's), (11, 43071), (12, 43101), (13, 43116), (14, 43131), (17, 43164), (19, 43182),

Gene: Phrancesco_71 Start: 43379, Stop: 43555, Start Num: 9

Candidate Starts for Phrancesco_71:

(6, 43301), (7, 43307), (Start: 9 @43379 has 38 MA's), (10, 43385), (11, 43394), (13, 43439), (14, 43454), (19, 43505),

Gene: PierreOrion_71 Start: 43485, Stop: 43661, Start Num: 9

Candidate Starts for PierreOrion_71:

(6, 43407), (7, 43413), (Start: 9 @43485 has 38 MA's), (11, 43500), (13, 43545), (14, 43560), (17, 43593), (19, 43611),

Gene: PiperSansNom_72 Start: 43558, Stop: 43734, Start Num: 9

Candidate Starts for PiperSansNom_72:

(6, 43480), (7, 43486), (Start: 9 @43558 has 38 MA's), (10, 43564), (11, 43573), (13, 43618), (14, 43633), (17, 43666), (19, 43684),

Gene: Piperis_72 Start: 43181, Stop: 43357, Start Num: 9

Candidate Starts for Piperis_72:

(6, 43103), (7, 43109), (Start: 9 @43181 has 38 MA's), (10, 43187), (11, 43196), (13, 43241), (14, 43256), (17, 43289),

Gene: Pulchra_73 Start: 43577, Stop: 43753, Start Num: 9

Candidate Starts for Pulchra_73:

(6, 43499), (7, 43505), (Start: 9 @43577 has 38 MA's), (10, 43583), (11, 43592), (13, 43637), (14, 43652), (19, 43703),

Gene: Quhwah_75 Start: 43866, Stop: 44042, Start Num: 9

Candidate Starts for Quhwah_75:

(6, 43788), (7, 43794), (Start: 9 @43866 has 38 MA's), (10, 43872), (11, 43881), (13, 43926), (14, 43941), (17, 43974), (19, 43992),

Gene: Ramiel05_70 Start: 43245, Stop: 43421, Start Num: 9

Candidate Starts for Ramiel05_70:

(6, 43167), (7, 43173), (Start: 9 @43245 has 38 MA's), (10, 43251), (11, 43260), (13, 43305), (14, 43320), (17, 43353), (19, 43371),

Gene: RobsFeet_75 Start: 44787, Stop: 44963, Start Num: 9

Candidate Starts for RobsFeet_75:

(4, 44598), (6, 44709), (Start: 9 @44787 has 38 MA's), (11, 44802), (13, 44847), (14, 44862), (17, 44895), (20, 44919), (21, 44934),

Gene: Savannah_70 Start: 43296, Stop: 43472, Start Num: 9

Candidate Starts for Savannah_70:

(6, 43218), (7, 43224), (Start: 9 @43296 has 38 MA's), (10, 43302), (11, 43311), (13, 43356), (14, 43371), (17, 43404), (19, 43422),

Gene: Scumberland_73 Start: 43491, Stop: 43667, Start Num: 9

Candidate Starts for Scumberland_73:

(6, 43413), (7, 43419), (Start: 9 @43491 has 38 MA's), (10, 43497), (11, 43506), (13, 43551), (14, 43566), (17, 43599), (19, 43617),

Gene: Selwyn23_72 Start: 43408, Stop: 43584, Start Num: 9

Candidate Starts for Selwyn23_72:

(6, 43330), (7, 43336), (Start: 9 @43408 has 38 MA's), (10, 43414), (11, 43423), (13, 43468), (14, 43483), (17, 43516), (19, 43534),

Gene: Shotgun_71 Start: 43175, Stop: 43351, Start Num: 9

Candidate Starts for Shotgun_71:

(6, 43097), (7, 43103), (Start: 9 @43175 has 38 MA's), (10, 43181), (11, 43190), (13, 43235), (14, 43250), (17, 43283), (19, 43301),

Gene: Smarties_81 Start: 45071, Stop: 45247, Start Num: 9

Candidate Starts for Smarties_81:

(3, 44852), (6, 44993), (Start: 9 @45071 has 38 MA's), (10, 45077), (11, 45086), (14, 45146), (16, 45176), (20, 45203),

Gene: Teamocil_75 Start: 43417, Stop: 43593, Start Num: 9

Candidate Starts for Teamocil_75:

(3, 43189), (4, 43216), (8, 43348), (Start: 9 @43417 has 38 MA's), (10, 43423), (11, 43432), (13, 43477), (14, 43492), (18, 43537), (20, 43549),

Gene: Tyrumbra_70 Start: 44012, Stop: 44188, Start Num: 9

Candidate Starts for Tyrumbra_70:

(4, 43823), (6, 43934), (Start: 9 @44012 has 38 MA's), (11, 44027), (13, 44072), (14, 44087), (17, 44120), (20, 44144), (21, 44159),

Gene: Yeti_71 Start: 43207, Stop: 43383, Start Num: 9

Candidate Starts for Yeti_71:

(6, 43129), (7, 43135), (Start: 9 @43207 has 38 MA's), (11, 43222), (13, 43267), (14, 43282), (17, 43315), (19, 43333),