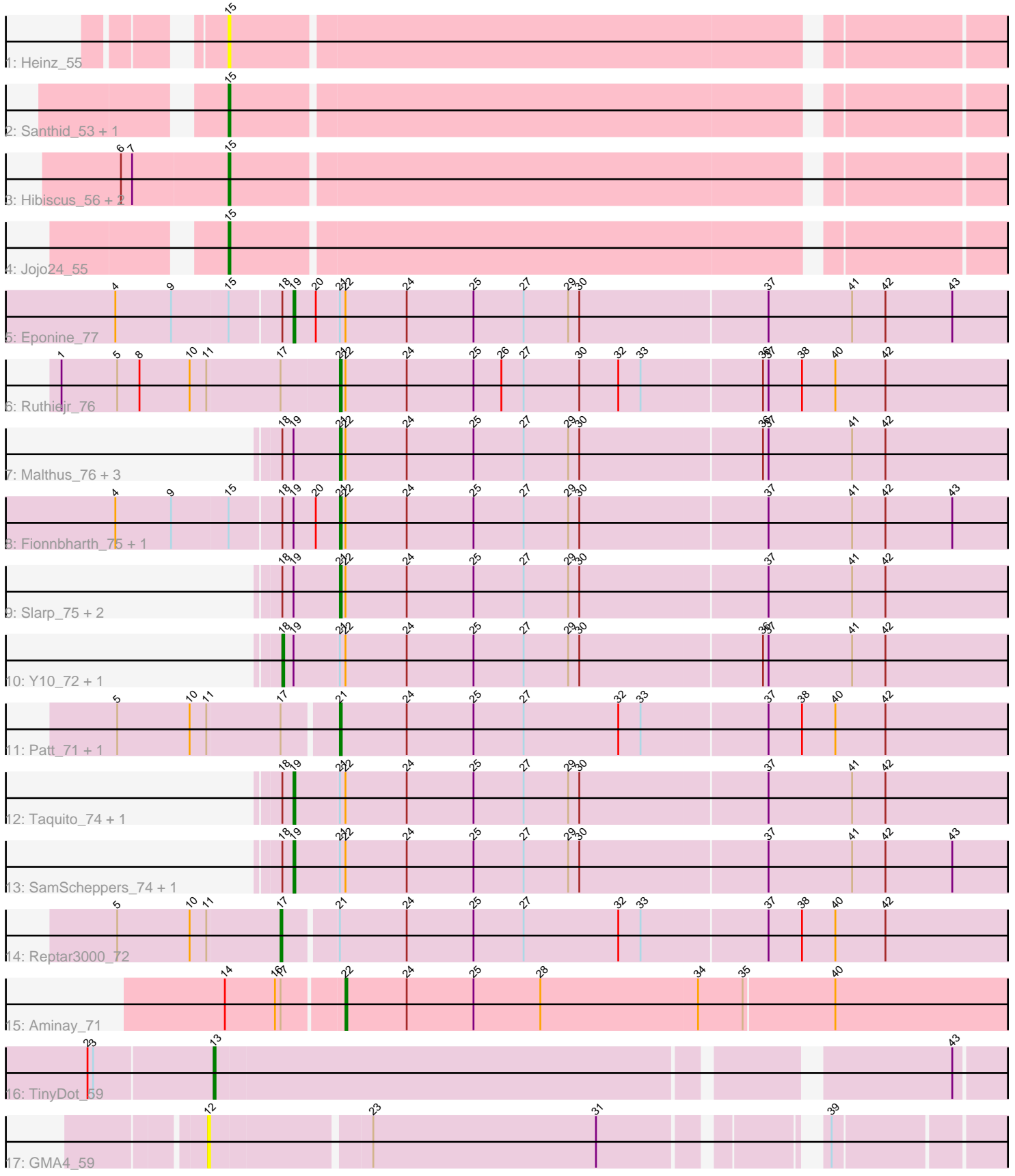


Pham 203192



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 203192 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203192 has 30 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Heinz_55
- Track 2 : Santhid_53, Reyja_58
- Track 3 : Hibiscus_56, DonkeyMan_54, Tarzan_56
- Track 4 : Jojo24_55
- Track 5 : Eponine_77
- Track 6 : Ruthiejr_76
- Track 7 : Malthus_76, Juliette_77, Kraw_76, JF1_75
- Track 8 : Fionnbharth_75, Wintermute_75
- Track 9 : Slarp_75, Mitti_75, Cheetobro_75
- Track 10 : Y10_72, Y2_72
- Track 11 : Patt_71, MissDaisy_72
- Track 12 : Taquito_74, OmniCritical_75
- Track 13 : SamScheppers_74, Chancellor_75
- Track 14 : Reptar3000_72
- Track 15 : Aminay_71
- Track 16 : TinyDot_59
- Track 17 : GMA4_59

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

The start number called the most often in the published annotations is 21, it was called in 11 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Cheetobro_75, Fionnbharth_75, JF1_75, Juliette_77, Kraw_76, Malthus_76, MissDaisy_72, Mitti_75, Patt_71, Ruthiejr_76, Slarp_75, Wintermute_75,

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

- Chancellor_75, Eponine_77, OmniCritical_75, Reptar3000_72, SamScheppers_74, Taquito_74, Y10_72, Y2_72,

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

- Aminay_71, DonkeyMan_54, GMA4_59, Heinz_55, Hibiscus_56, Jojo24_55, Reyja_58, Santhid_53, Tarzan_56, TinyDot_59,

Summary by start number:

Start 12:

- Found in 1 of 30 (3.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA4_59 (singleton),

Start 13:

- Found in 1 of 30 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TinyDot_59 (singleton),

Start 15:

- Found in 10 of 30 (33.3%) of genes in pham
- Manual Annotations of this start: 5 of 26
- Called 70.0% of time when present
- Phage (with cluster) where this start called: DonkeyMan_54 (DY), Heinz_55 (DY), Hibiscus_56 (DY), Jojo24_55 (DY), Reyja_58 (DY), Santhid_53 (DY), Tarzan_56 (DY),

Start 17:

- Found in 5 of 30 (16.7%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Reptar3000_72 (K4),

Start 18:

- Found in 16 of 30 (53.3%) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Y10_72 (K4), Y2_72 (K4),

Start 19:

- Found in 16 of 30 (53.3%) of genes in pham
- Manual Annotations of this start: 5 of 26
- Called 31.2% of time when present
- Phage (with cluster) where this start called: Chancellor_75 (K4), Eponine_77 (K4), OmniCritical_75 (K4), SamScheppers_74 (K4), Taquito_74 (K4),

Start 21:

- Found in 20 of 30 (66.7%) of genes in pham
- Manual Annotations of this start: 11 of 26
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Cheetobro_75 (K4), Fionnbharth_75 (K4), JF1_75 (K4), Juliette_77 (K4), Kraw_76 (K4), Malthus_76 (K4), MissDaisy_72 (K4), Mitti_75 (K4), Patt_71 (K4), Ruthiejr_76 (K4), Slarp_75 (K4), Wintermute_75 (K4),

Start 22:

- Found in 18 of 30 (60.0%) of genes in pham

- Manual Annotations of this start: 1 of 26
- Called 5.6% of time when present
- Phage (with cluster) where this start called: Aminay_71 (K7),

Summary by clusters:

There are 4 clusters represented in this pham: singleton, DY, K7, K4,

Info for manual annotations of cluster DY:

- Start number 15 was manually annotated 5 times for cluster DY.

Info for manual annotations of cluster K4:

- Start number 17 was manually annotated 1 time for cluster K4.
- Start number 18 was manually annotated 2 times for cluster K4.
- Start number 19 was manually annotated 5 times for cluster K4.
- Start number 21 was manually annotated 11 times for cluster K4.

Info for manual annotations of cluster K7:

- Start number 22 was manually annotated 1 time for cluster K7.

Gene Information:

Gene: Aminay_71 Start: 46904, Stop: 47275, Start Num: 22

Candidate Starts for Aminay_71:

(14, 46844), (16, 46871), (Start: 17 @46874 has 1 MA's), (Start: 22 @46904 has 1 MA's), (24, 46937), (25, 46973), (28, 47009), (34, 47093), (35, 47117), (40, 47165),

Gene: Chancellor_75 Start: 47966, Stop: 48364, Start Num: 19

Candidate Starts for Chancellor_75:

(Start: 18 @47960 has 2 MA's), (Start: 19 @47966 has 5 MA's), (Start: 21 @47990 has 11 MA's), (Start: 22 @47993 has 1 MA's), (24, 48026), (25, 48062), (27, 48089), (29, 48113), (30, 48119), (37, 48218), (41, 48263), (42, 48281), (43, 48317),

Gene: Cheetobro_75 Start: 47987, Stop: 48361, Start Num: 21

Candidate Starts for Cheetobro_75:

(Start: 18 @47957 has 2 MA's), (Start: 19 @47963 has 5 MA's), (Start: 21 @47987 has 11 MA's), (Start: 22 @47990 has 1 MA's), (24, 48023), (25, 48059), (27, 48086), (29, 48110), (30, 48116), (37, 48215), (41, 48260), (42, 48278),

Gene: DonkeyMan_54 Start: 37547, Stop: 37960, Start Num: 15

Candidate Starts for DonkeyMan_54:

(6, 37490), (7, 37496), (Start: 15 @37547 has 5 MA's),

Gene: Eponine_77 Start: 48810, Stop: 49208, Start Num: 19

Candidate Starts for Eponine_77:

(4, 48717), (9, 48747), (Start: 15 @48777 has 5 MA's), (Start: 18 @48804 has 2 MA's), (Start: 19 @48810 has 5 MA's), (20, 48822), (Start: 21 @48834 has 11 MA's), (Start: 22 @48837 has 1 MA's), (24, 48870), (25, 48906), (27, 48933), (29, 48957), (30, 48963), (37, 49062), (41, 49107), (42, 49125), (43, 49161),

Gene: Fionnbharth_75 Start: 48232, Stop: 48606, Start Num: 21

Candidate Starts for Fionnbharth_75:

(4, 48115), (9, 48145), (Start: 15 @48175 has 5 MA's), (Start: 18 @48202 has 2 MA's), (Start: 19 @48208 has 5 MA's), (20, 48220), (Start: 21 @48232 has 11 MA's), (Start: 22 @48235 has 1 MA's), (24, 48268), (25, 48304), (27, 48331), (29, 48355), (30, 48361), (37, 48460), (41, 48505), (42, 48523), (43, 48559),

Gene: GMA4_59 Start: 39801, Stop: 40205, Start Num: 12

Candidate Starts for GMA4_59:

(12, 39801), (23, 39882), (31, 40002), (39, 40101),

Gene: Heinz_55 Start: 36477, Stop: 36890, Start Num: 15

Candidate Starts for Heinz_55:

(Start: 15 @36477 has 5 MA's),

Gene: Hibiscus_56 Start: 36444, Stop: 36857, Start Num: 15

Candidate Starts for Hibiscus_56:

(6, 36387), (7, 36393), (Start: 15 @36444 has 5 MA's),

Gene: JF1_75 Start: 48197, Stop: 48571, Start Num: 21

Candidate Starts for JF1_75:

(Start: 18 @48167 has 2 MA's), (Start: 19 @48173 has 5 MA's), (Start: 21 @48197 has 11 MA's), (Start: 22 @48200 has 1 MA's), (24, 48233), (25, 48269), (27, 48296), (29, 48320), (30, 48326), (36, 48422), (37, 48425), (41, 48470), (42, 48488),

Gene: Jojo24_55 Start: 36792, Stop: 37205, Start Num: 15

Candidate Starts for Jojo24_55:

(Start: 15 @36792 has 5 MA's),

Gene: Juliette_77 Start: 48295, Stop: 48669, Start Num: 21

Candidate Starts for Juliette_77:

(Start: 18 @48265 has 2 MA's), (Start: 19 @48271 has 5 MA's), (Start: 21 @48295 has 11 MA's), (Start: 22 @48298 has 1 MA's), (24, 48331), (25, 48367), (27, 48394), (29, 48418), (30, 48424), (36, 48520), (37, 48523), (41, 48568), (42, 48586),

Gene: Kraw_76 Start: 47983, Stop: 48357, Start Num: 21

Candidate Starts for Kraw_76:

(Start: 18 @47953 has 2 MA's), (Start: 19 @47959 has 5 MA's), (Start: 21 @47983 has 11 MA's), (Start: 22 @47986 has 1 MA's), (24, 48019), (25, 48055), (27, 48082), (29, 48106), (30, 48112), (36, 48208), (37, 48211), (41, 48256), (42, 48274),

Gene: Malthus_76 Start: 47983, Stop: 48357, Start Num: 21

Candidate Starts for Malthus_76:

(Start: 18 @47953 has 2 MA's), (Start: 19 @47959 has 5 MA's), (Start: 21 @47983 has 11 MA's), (Start: 22 @47986 has 1 MA's), (24, 48019), (25, 48055), (27, 48082), (29, 48106), (30, 48112), (36, 48208), (37, 48211), (41, 48256), (42, 48274),

Gene: MissDaisy_72 Start: 46894, Stop: 47268, Start Num: 21

Candidate Starts for MissDaisy_72:

(5, 46780), (10, 46819), (11, 46828), (Start: 17 @46867 has 1 MA's), (Start: 21 @46894 has 11 MA's), (24, 46930), (25, 46966), (27, 46993), (32, 47044), (33, 47056), (37, 47122), (38, 47140), (40, 47158), (42, 47185),

Gene: Mitti_75 Start: 48138, Stop: 48512, Start Num: 21

Candidate Starts for Mitti_75:

(Start: 18 @48108 has 2 MA's), (Start: 19 @48114 has 5 MA's), (Start: 21 @48138 has 11 MA's),
(Start: 22 @48141 has 1 MA's), (24, 48174), (25, 48210), (27, 48237), (29, 48261), (30, 48267), (37,
48366), (41, 48411), (42, 48429),

Gene: OmniCritical_75 Start: 48047, Stop: 48445, Start Num: 19

Candidate Starts for OmniCritical_75:

(Start: 18 @48041 has 2 MA's), (Start: 19 @48047 has 5 MA's), (Start: 21 @48071 has 11 MA's),
(Start: 22 @48074 has 1 MA's), (24, 48107), (25, 48143), (27, 48170), (29, 48194), (30, 48200), (37,
48299), (41, 48344), (42, 48362),

Gene: Patt_71 Start: 46615, Stop: 46989, Start Num: 21

Candidate Starts for Patt_71:

(5, 46501), (10, 46540), (11, 46549), (Start: 17 @46588 has 1 MA's), (Start: 21 @46615 has 11 MA's),
(24, 46651), (25, 46687), (27, 46714), (32, 46765), (33, 46777), (37, 46843), (38, 46861), (40, 46879),
(42, 46906),

Gene: Reptar3000_72 Start: 46577, Stop: 46978, Start Num: 17

Candidate Starts for Reptar3000_72:

(5, 46490), (10, 46529), (11, 46538), (Start: 17 @46577 has 1 MA's), (Start: 21 @46604 has 11 MA's),
(24, 46640), (25, 46676), (27, 46703), (32, 46754), (33, 46766), (37, 46832), (38, 46850), (40, 46868),
(42, 46895),

Gene: Reyja_58 Start: 38090, Stop: 38503, Start Num: 15

Candidate Starts for Reyja_58:

(Start: 15 @38090 has 5 MA's),

Gene: Ruthiejr_76 Start: 48082, Stop: 48456, Start Num: 21

Candidate Starts for Ruthiejr_76:

(1, 47935), (5, 47965), (8, 47977), (10, 48004), (11, 48013), (Start: 17 @48052 has 1 MA's), (Start: 21
@48082 has 11 MA's), (Start: 22 @48085 has 1 MA's), (24, 48118), (25, 48154), (26, 48169), (27,
48181), (30, 48211), (32, 48232), (33, 48244), (36, 48307), (37, 48310), (38, 48328), (40, 48346), (42,
48373),

Gene: SamScheppers_74 Start: 48438, Stop: 48836, Start Num: 19

Candidate Starts for SamScheppers_74:

(Start: 18 @48432 has 2 MA's), (Start: 19 @48438 has 5 MA's), (Start: 21 @48462 has 11 MA's),
(Start: 22 @48465 has 1 MA's), (24, 48498), (25, 48534), (27, 48561), (29, 48585), (30, 48591), (37,
48690), (41, 48735), (42, 48753), (43, 48789),

Gene: Santhid_53 Start: 35574, Stop: 35987, Start Num: 15

Candidate Starts for Santhid_53:

(Start: 15 @35574 has 5 MA's),

Gene: Slarp_75 Start: 47990, Stop: 48364, Start Num: 21

Candidate Starts for Slarp_75:

(Start: 18 @47960 has 2 MA's), (Start: 19 @47966 has 5 MA's), (Start: 21 @47990 has 11 MA's),
(Start: 22 @47993 has 1 MA's), (24, 48026), (25, 48062), (27, 48089), (29, 48113), (30, 48119), (37,
48218), (41, 48263), (42, 48281),

Gene: Taquito_74 Start: 48171, Stop: 48569, Start Num: 19

Candidate Starts for Taquito_74:

(Start: 18 @48165 has 2 MA's), (Start: 19 @48171 has 5 MA's), (Start: 21 @48195 has 11 MA's),
(Start: 22 @48198 has 1 MA's), (24, 48231), (25, 48267), (27, 48294), (29, 48318), (30, 48324), (37,
48423), (41, 48468), (42, 48486),

Gene: Tarzan_56 Start: 36802, Stop: 37215, Start Num: 15

Candidate Starts for Tarzan_56:

(6, 36745), (7, 36751), (Start: 15 @36802 has 5 MA's),

Gene: TinyDot_59 Start: 37583, Stop: 37999, Start Num: 13

Candidate Starts for TinyDot_59:

(2, 37517), (3, 37520), (Start: 13 @37583 has 1 MA's), (43, 37955),

Gene: Wintermute_75 Start: 48221, Stop: 48595, Start Num: 21

Candidate Starts for Wintermute_75:

(4, 48104), (9, 48134), (Start: 15 @48164 has 5 MA's), (Start: 18 @48191 has 2 MA's), (Start: 19
@48197 has 5 MA's), (20, 48209), (Start: 21 @48221 has 11 MA's), (Start: 22 @48224 has 1 MA's),
(24, 48257), (25, 48293), (27, 48320), (29, 48344), (30, 48350), (37, 48449), (41, 48494), (42, 48512),
(43, 48548),

Gene: Y10_72 Start: 48167, Stop: 48571, Start Num: 18

Candidate Starts for Y10_72:

(Start: 18 @48167 has 2 MA's), (Start: 19 @48173 has 5 MA's), (Start: 21 @48197 has 11 MA's),
(Start: 22 @48200 has 1 MA's), (24, 48233), (25, 48269), (27, 48296), (29, 48320), (30, 48326), (36,
48422), (37, 48425), (41, 48470), (42, 48488),

Gene: Y2_72 Start: 48167, Stop: 48571, Start Num: 18

Candidate Starts for Y2_72:

(Start: 18 @48167 has 2 MA's), (Start: 19 @48173 has 5 MA's), (Start: 21 @48197 has 11 MA's),
(Start: 22 @48200 has 1 MA's), (24, 48233), (25, 48269), (27, 48296), (29, 48320), (30, 48326), (36,
48422), (37, 48425), (41, 48470), (42, 48488),