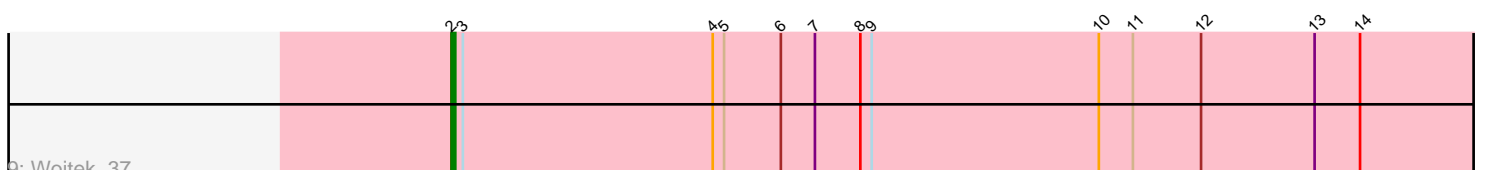
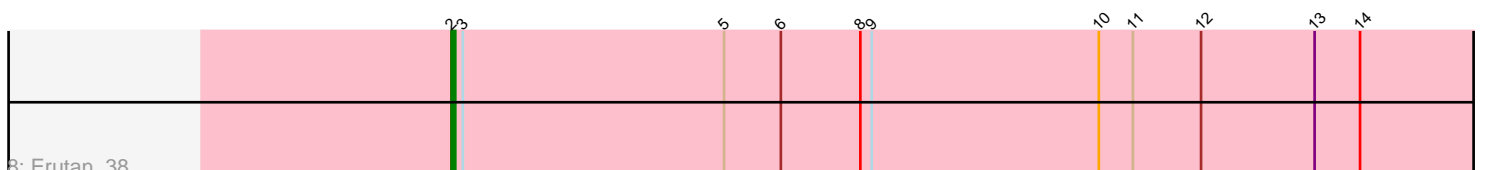
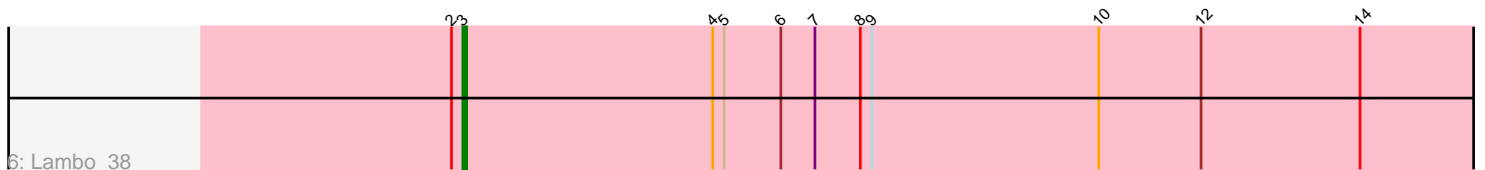
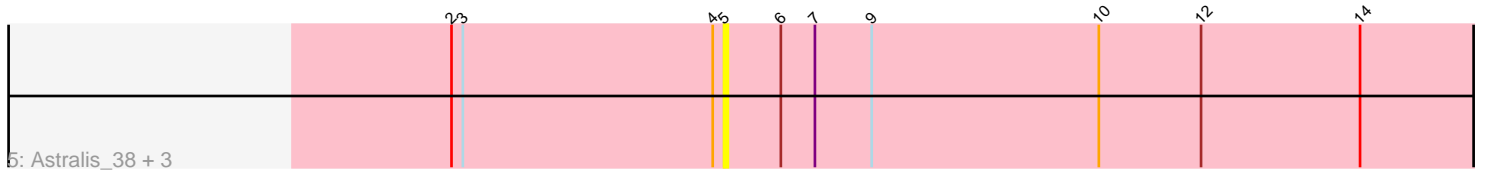
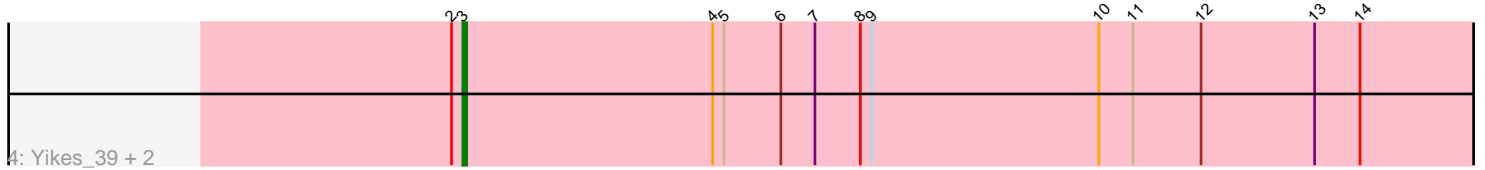
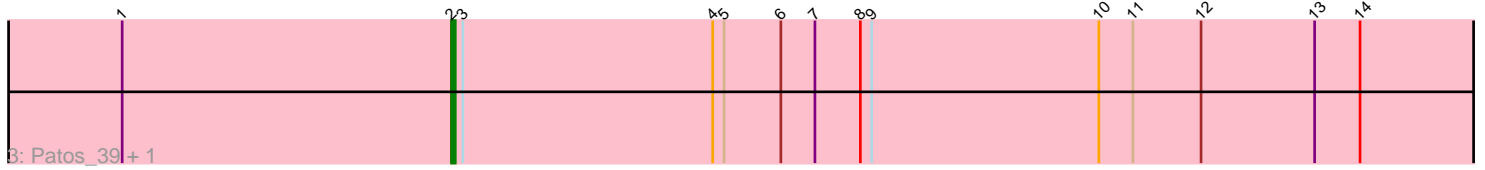
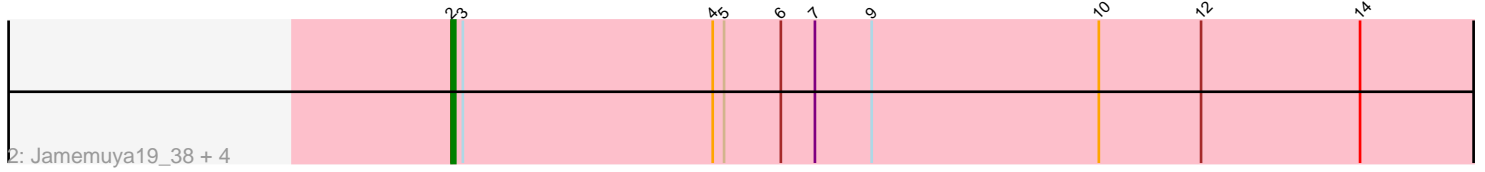
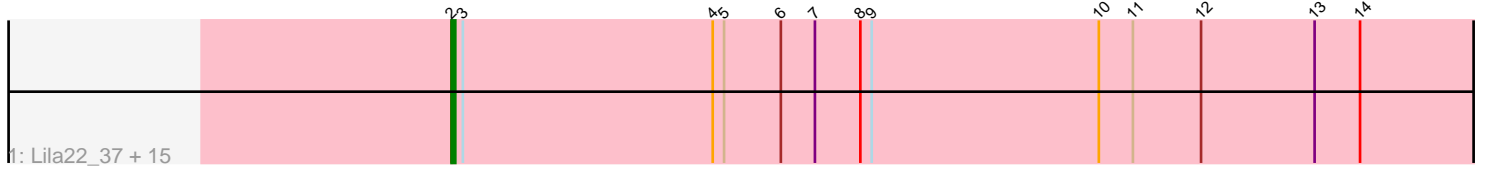


Pham 212814



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 212814 Report

This analysis was run 02/22/25 on database version 588.

Pham number 212814 has 34 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Lila22_37, BirthdayBoy_39, ParvusTarda_38, Mima20_39, LavAbarElk_36, MoiGyank_40, GOATification_39, Fulcrum_39, Zany_37, Gibbin_39, Sampudon_38, GretelLyn_38, OtterstedtS21_38, DoobyDoo_37, Jalebi_37, Sadboi_39
- Track 2 : Jamemuya19_38, NovaSharks_38, Genamy16_39, Alyssamiracle_39, Rumi_38
- Track 3 : Patos_39, NorManre_39
- Track 4 : Yikes_39, DaviePasture_38, Ranch_38
- Track 5 : Astralis_38, RazorC_37, Avian_37, Stormer_38
- Track 6 : Lambo_38
- Track 7 : Alephilan_35
- Track 8 : Erutan_38
- Track 9 : Wojtek_37

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

The start number called the most often in the published annotations is 2, it was called in 22 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alyssamiracle_39, BirthdayBoy_39, DoobyDoo_37, Erutan_38, Fulcrum_39, GOATification_39, Genamy16_39, Gibbin_39, GretelLyn_38, Jalebi_37, Jamemuya19_38, LavAbarElk_36, Lila22_37, Mima20_39, MoiGyank_40, NorManre_39, NovaSharks_38, OtterstedtS21_38, ParvusTarda_38, Patos_39, Rumi_38, Sadboi_39, Sampudon_38, Wojtek_37, Zany_37,

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

- Alephilan_35, Astralis_38, Avian_37, DaviePasture_38, Lambo_38, Ranch_38, RazorC_37, Stormer_38, Yikes_39,

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

-

Summary by start number:

Start 2:

- Found in 34 of 34 (100.0%) of genes in pham
- Manual Annotations of this start: 22 of 26
- Called 73.5% of time when present
- Phage (with cluster) where this start called: Alyssamiracle_39 (DV), BirthdayBoy_39 (DV), DoobyDoo_37 (DV), Erutan_38 (DV), Fulcrum_39 (DV), GOATification_39 (DV), Genamy16_39 (DV), Gibbin_39 (DV), GretelLyn_38 (DV), Jalebi_37 (DV), Jamemuya19_38 (DV), LavAbarElk_36 (DV), Lila22_37 (DV), Mima20_39 (DV), MoiGyank_40 (DV), NorManre_39 (DV), NovaSharks_38 (DV), OtterstedtS21_38 (DV), ParvusTarda_38 (DV), Patos_39 (DV), Rumi_38 (DV), Sadboi_39 (DV), Sampudon_38 (DV), Wojtek_37 (DV), Zany_37 (DV),

Start 3:

- Found in 34 of 34 (100.0%) of genes in pham
- Manual Annotations of this start: 4 of 26
- Called 11.8% of time when present
- Phage (with cluster) where this start called: DaviePasture_38 (DV), Lambo_38 (DV), Ranch_38 (DV), Yikes_39 (DV),

Start 5:

- Found in 34 of 34 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 14.7% of time when present
- Phage (with cluster) where this start called: Alephilan_35 (DV), Astralis_38 (DV), Avian_37 (DV), RazorC_37 (DV), Stormer_38 (DV),

Summary by clusters:

There is one cluster represented in this pham: DV

Info for manual annotations of cluster DV:

- Start number 2 was manually annotated 22 times for cluster DV.
- Start number 3 was manually annotated 4 times for cluster DV.

Gene Information:

Gene: Alephilan_35 Start: 31881, Stop: 32081, Start Num: 5

Candidate Starts for Alephilan_35:

(Start: 2 @31809 has 22 MA's), (Start: 3 @31812 has 4 MA's), (4, 31878), (5, 31881), (6, 31896), (7, 31905), (8, 31917), (10, 31980), (11, 31989), (13, 32037), (14, 32049),

Gene: Alyssamiracle_39 Start: 30903, Stop: 31175, Start Num: 2

Candidate Starts for Alyssamiracle_39:

(Start: 2 @30903 has 22 MA's), (Start: 3 @30906 has 4 MA's), (4, 30972), (5, 30975), (6, 30990), (7, 30999), (9, 31014), (10, 31074), (12, 31101), (14, 31143),

Gene: Astralis_38 Start: 30565, Stop: 30765, Start Num: 5

Candidate Starts for Astralis_38:

(Start: 2 @30493 has 22 MA's), (Start: 3 @30496 has 4 MA's), (4, 30562), (5, 30565), (6, 30580), (7, 30589), (9, 30604), (10, 30664), (12, 30691), (14, 30733),

Gene: Avian_37 Start: 30957, Stop: 31157, Start Num: 5

Candidate Starts for Avian_37:

(Start: 2 @30885 has 22 MA's), (Start: 3 @30888 has 4 MA's), (4, 30954), (5, 30957), (6, 30972), (7, 30981), (9, 30996), (10, 31056), (12, 31083), (14, 31125),

Gene: BirthdayBoy_39 Start: 32632, Stop: 32904, Start Num: 2

Candidate Starts for BirthdayBoy_39:

(Start: 2 @32632 has 22 MA's), (Start: 3 @32635 has 4 MA's), (4, 32701), (5, 32704), (6, 32719), (7, 32728), (8, 32740), (9, 32743), (10, 32803), (11, 32812), (12, 32830), (13, 32860), (14, 32872),

Gene: DaviePasture_38 Start: 32439, Stop: 32708, Start Num: 3

Candidate Starts for DaviePasture_38:

(Start: 2 @32436 has 22 MA's), (Start: 3 @32439 has 4 MA's), (4, 32505), (5, 32508), (6, 32523), (7, 32532), (8, 32544), (9, 32547), (10, 32607), (11, 32616), (12, 32634), (13, 32664), (14, 32676),

Gene: DoobyDoo_37 Start: 31583, Stop: 31855, Start Num: 2

Candidate Starts for DoobyDoo_37:

(Start: 2 @31583 has 22 MA's), (Start: 3 @31586 has 4 MA's), (4, 31652), (5, 31655), (6, 31670), (7, 31679), (8, 31691), (9, 31694), (10, 31754), (11, 31763), (12, 31781), (13, 31811), (14, 31823),

Gene: Erutan_38 Start: 32091, Stop: 32363, Start Num: 2

Candidate Starts for Erutan_38:

(Start: 2 @32091 has 22 MA's), (Start: 3 @32094 has 4 MA's), (5, 32163), (6, 32178), (8, 32199), (9, 32202), (10, 32262), (11, 32271), (12, 32289), (13, 32319), (14, 32331),

Gene: Fulcrum_39 Start: 32612, Stop: 32884, Start Num: 2

Candidate Starts for Fulcrum_39:

(Start: 2 @32612 has 22 MA's), (Start: 3 @32615 has 4 MA's), (4, 32681), (5, 32684), (6, 32699), (7, 32708), (8, 32720), (9, 32723), (10, 32783), (11, 32792), (12, 32810), (13, 32840), (14, 32852),

Gene: GOATification_39 Start: 32612, Stop: 32884, Start Num: 2

Candidate Starts for GOATification_39:

(Start: 2 @32612 has 22 MA's), (Start: 3 @32615 has 4 MA's), (4, 32681), (5, 32684), (6, 32699), (7, 32708), (8, 32720), (9, 32723), (10, 32783), (11, 32792), (12, 32810), (13, 32840), (14, 32852),

Gene: Genamy16_39 Start: 30903, Stop: 31175, Start Num: 2

Candidate Starts for Genamy16_39:

(Start: 2 @30903 has 22 MA's), (Start: 3 @30906 has 4 MA's), (4, 30972), (5, 30975), (6, 30990), (7, 30999), (9, 31014), (10, 31074), (12, 31101), (14, 31143),

Gene: Gibbin_39 Start: 32710, Stop: 32982, Start Num: 2

Candidate Starts for Gibbin_39:

(Start: 2 @32710 has 22 MA's), (Start: 3 @32713 has 4 MA's), (4, 32779), (5, 32782), (6, 32797), (7, 32806), (8, 32818), (9, 32821), (10, 32881), (11, 32890), (12, 32908), (13, 32938), (14, 32950),

Gene: Gretellyn_38 Start: 32976, Stop: 33248, Start Num: 2

Candidate Starts for Gretellyn_38:

(Start: 2 @32976 has 22 MA's), (Start: 3 @32979 has 4 MA's), (4, 33045), (5, 33048), (6, 33063), (7, 33072), (8, 33084), (9, 33087), (10, 33147), (11, 33156), (12, 33174), (13, 33204), (14, 33216),

Gene: Jalebi_37 Start: 33145, Stop: 33417, Start Num: 2

Candidate Starts for Jalebi_37:

(Start: 2 @33145 has 22 MA's), (Start: 3 @33148 has 4 MA's), (4, 33214), (5, 33217), (6, 33232), (7, 33241), (8, 33253), (9, 33256), (10, 33316), (11, 33325), (12, 33343), (13, 33373), (14, 33385),

Gene: Jamemuya19_38 Start: 30493, Stop: 30765, Start Num: 2

Candidate Starts for Jamemuya19_38:

(Start: 2 @30493 has 22 MA's), (Start: 3 @30496 has 4 MA's), (4, 30562), (5, 30565), (6, 30580), (7, 30589), (9, 30604), (10, 30664), (12, 30691), (14, 30733),

Gene: Lambo_38 Start: 32633, Stop: 32902, Start Num: 3

Candidate Starts for Lambo_38:

(Start: 2 @32630 has 22 MA's), (Start: 3 @32633 has 4 MA's), (4, 32699), (5, 32702), (6, 32717), (7, 32726), (8, 32738), (9, 32741), (10, 32801), (12, 32828), (14, 32870),

Gene: LavAbarElk_36 Start: 31084, Stop: 31356, Start Num: 2

Candidate Starts for LavAbarElk_36:

(Start: 2 @31084 has 22 MA's), (Start: 3 @31087 has 4 MA's), (4, 31153), (5, 31156), (6, 31171), (7, 31180), (8, 31192), (9, 31195), (10, 31255), (11, 31264), (12, 31282), (13, 31312), (14, 31324),

Gene: Lila22_37 Start: 32585, Stop: 32857, Start Num: 2

Candidate Starts for Lila22_37:

(Start: 2 @32585 has 22 MA's), (Start: 3 @32588 has 4 MA's), (4, 32654), (5, 32657), (6, 32672), (7, 32681), (8, 32693), (9, 32696), (10, 32756), (11, 32765), (12, 32783), (13, 32813), (14, 32825),

Gene: Mima20_39 Start: 32334, Stop: 32606, Start Num: 2

Candidate Starts for Mima20_39:

(Start: 2 @32334 has 22 MA's), (Start: 3 @32337 has 4 MA's), (4, 32403), (5, 32406), (6, 32421), (7, 32430), (8, 32442), (9, 32445), (10, 32505), (11, 32514), (12, 32532), (13, 32562), (14, 32574),

Gene: MoiGyank_40 Start: 33015, Stop: 33287, Start Num: 2

Candidate Starts for MoiGyank_40:

(Start: 2 @33015 has 22 MA's), (Start: 3 @33018 has 4 MA's), (4, 33084), (5, 33087), (6, 33102), (7, 33111), (8, 33123), (9, 33126), (10, 33186), (11, 33195), (12, 33213), (13, 33243), (14, 33255),

Gene: NorManre_39 Start: 32221, Stop: 32493, Start Num: 2

Candidate Starts for NorManre_39:

(1, 32134), (Start: 2 @32221 has 22 MA's), (Start: 3 @32224 has 4 MA's), (4, 32290), (5, 32293), (6, 32308), (7, 32317), (8, 32329), (9, 32332), (10, 32392), (11, 32401), (12, 32419), (13, 32449), (14, 32461),

Gene: NovaSharks_38 Start: 30493, Stop: 30765, Start Num: 2

Candidate Starts for NovaSharks_38:

(Start: 2 @30493 has 22 MA's), (Start: 3 @30496 has 4 MA's), (4, 30562), (5, 30565), (6, 30580), (7, 30589), (9, 30604), (10, 30664), (12, 30691), (14, 30733),

Gene: OtterstedtS21_38 Start: 32292, Stop: 32564, Start Num: 2

Candidate Starts for OtterstedtS21_38:

(Start: 2 @32292 has 22 MA's), (Start: 3 @32295 has 4 MA's), (4, 32361), (5, 32364), (6, 32379), (7, 32388), (8, 32400), (9, 32403), (10, 32463), (11, 32472), (12, 32490), (13, 32520), (14, 32532),

Gene: ParvusTarda_38 Start: 31760, Stop: 32032, Start Num: 2

Candidate Starts for ParvusTarda_38:

(Start: 2 @31760 has 22 MA's), (Start: 3 @31763 has 4 MA's), (4, 31829), (5, 31832), (6, 31847), (7, 31856), (8, 31868), (9, 31871), (10, 31931), (11, 31940), (12, 31958), (13, 31988), (14, 32000),

Gene: Patos_39 Start: 32221, Stop: 32493, Start Num: 2

Candidate Starts for Patos_39:

(1, 32134), (Start: 2 @32221 has 22 MA's), (Start: 3 @32224 has 4 MA's), (4, 32290), (5, 32293), (6, 32308), (7, 32317), (8, 32329), (9, 32332), (10, 32392), (11, 32401), (12, 32419), (13, 32449), (14, 32461),

Gene: Ranch_38 Start: 31121, Stop: 31390, Start Num: 3

Candidate Starts for Ranch_38:

(Start: 2 @31118 has 22 MA's), (Start: 3 @31121 has 4 MA's), (4, 31187), (5, 31190), (6, 31205), (7, 31214), (8, 31226), (9, 31229), (10, 31289), (11, 31298), (12, 31316), (13, 31346), (14, 31358),

Gene: RazorC_37 Start: 30957, Stop: 31157, Start Num: 5

Candidate Starts for RazorC_37:

(Start: 2 @30885 has 22 MA's), (Start: 3 @30888 has 4 MA's), (4, 30954), (5, 30957), (6, 30972), (7, 30981), (9, 30996), (10, 31056), (12, 31083), (14, 31125),

Gene: Rumi_38 Start: 30496, Stop: 30768, Start Num: 2

Candidate Starts for Rumi_38:

(Start: 2 @30496 has 22 MA's), (Start: 3 @30499 has 4 MA's), (4, 30565), (5, 30568), (6, 30583), (7, 30592), (9, 30607), (10, 30667), (12, 30694), (14, 30736),

Gene: Sadboi_39 Start: 32977, Stop: 33249, Start Num: 2

Candidate Starts for Sadboi_39:

(Start: 2 @32977 has 22 MA's), (Start: 3 @32980 has 4 MA's), (4, 33046), (5, 33049), (6, 33064), (7, 33073), (8, 33085), (9, 33088), (10, 33148), (11, 33157), (12, 33175), (13, 33205), (14, 33217),

Gene: Sampudon_38 Start: 33145, Stop: 33417, Start Num: 2

Candidate Starts for Sampudon_38:

(Start: 2 @33145 has 22 MA's), (Start: 3 @33148 has 4 MA's), (4, 33214), (5, 33217), (6, 33232), (7, 33241), (8, 33253), (9, 33256), (10, 33316), (11, 33325), (12, 33343), (13, 33373), (14, 33385),

Gene: Stormer_38 Start: 30571, Stop: 30771, Start Num: 5

Candidate Starts for Stormer_38:

(Start: 2 @30499 has 22 MA's), (Start: 3 @30502 has 4 MA's), (4, 30568), (5, 30571), (6, 30586), (7, 30595), (9, 30610), (10, 30670), (12, 30697), (14, 30739),

Gene: Wojtek_37 Start: 31844, Stop: 32116, Start Num: 2

Candidate Starts for Wojtek_37:

(Start: 2 @31844 has 22 MA's), (Start: 3 @31847 has 4 MA's), (4, 31913), (5, 31916), (6, 31931), (7, 31940), (8, 31952), (9, 31955), (10, 32015), (11, 32024), (12, 32042), (13, 32072), (14, 32084),

Gene: Yikes_39 Start: 33227, Stop: 33496, Start Num: 3

Candidate Starts for Yikes_39:

(Start: 2 @33224 has 22 MA's), (Start: 3 @33227 has 4 MA's), (4, 33293), (5, 33296), (6, 33311), (7, 33320), (8, 33332), (9, 33335), (10, 33395), (11, 33404), (12, 33422), (13, 33452), (14, 33464),

Gene: Zany_37 Start: 32749, Stop: 33021, Start Num: 2

Candidate Starts for Zany_37:

(Start: 2 @32749 has 22 MA's), (Start: 3 @32752 has 4 MA's), (4, 32818), (5, 32821), (6, 32836), (7, 32845), (8, 32857), (9, 32860), (10, 32920), (11, 32929), (12, 32947), (13, 32977), (14, 32989),