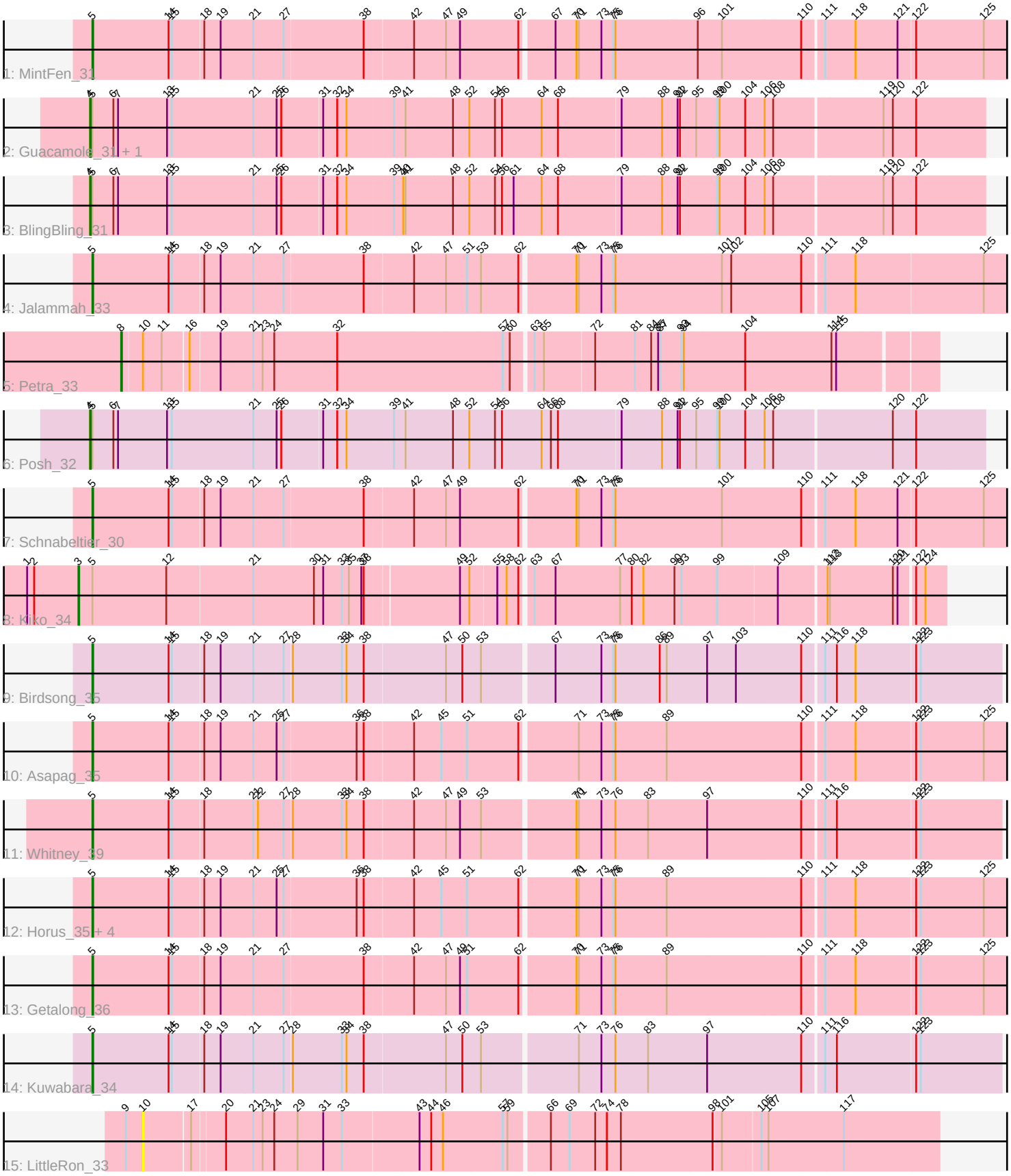
Pham 309335


1: MintFen_31
2: Guacamole_31 + 1
3: BlingBling_31
4: Jalammah_33
5: Petra_33
6: Posh_32
7: Schnabeltier_30
8: Kiko_34
9: Birdsong_35
10: Asapag_35
11: Whitney_39
12: Horus_35 + 4
13: Getalong_36
14: Kuwabara_34
15: LittleRon_33

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 309335 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309335 has 20 members, 2 are drafts.

Phages represented in each track:
• Track 1 : MintFen_31
• Track 2 : Guacamole_31, JasperJr_31
• Track 3 : BlingBling_31
• Track 4 : Jalammah_33
• Track 5 : Petra_33
• Track 6 : Posh_32
• Track 7 : Schnabeltier_30
• Track 8 : Kiko_34
• Track 9 : Birdsong_35
• Track 10 : Asapag_35
• Track 11 : Whitney_39
• Track 12 : Horus_35, BotCity_36, Leroy_35, Frickyeah_33, Periwinkle_37
• Track 13 : Getalong_36
• Track 14 : Kuwabara_34
• Track 15 : LittleRon_33

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

The start number called the most often in the published annotations is 5, it was called in 12 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Asapag_35, Birdsong_35, BotCity_36, Frickyeah_33, Getalong_36, Horus_35, Jalammah_33, Kuwabara_34, Leroy_35, MintFen_31, Periwinkle_37, Schnabeltier_30, Whitney_39,

Genes that have the "Most Annotated" start but do not call it:
• BlingBling_31, Guacamole_31, JasperJr_31, Kiko_34, Posh_32,

Genes that do not have the "Most Annotated" start:
• LittleRon_33, Petra_33,

Summary by start number:

Start 3:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kiko_34 (DB),

Start 4:
• Found in 4 of 20 (20.0%) of genes in pham
• Manual Annotations of this start: 4 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BlingBling_31 (CV), Guacamole_31 (CV), JasperJr_31 (CV), Posh_32 (CY4),

Start 5:
• Found in 18 of 20 (90.0%) of genes in pham
• Manual Annotations of this start: 12 of 18
• Called 72.2% of time when present
• Phage (with cluster) where this start called: Asapag_35 (DN1), Birdsong_35 (DN), BotCity_36 (DN), Frickyeah_33 (DN1), Getalong_36 (DN1), Horus_35 (DN1), Jalammah_33 (CV), Kuwabara_34 (DN4), Leroy_35 (DN1), MintFen_31 (CV), Periwinkle_37 (DN1), Schnabeltier_30 (DB), Whitney_39 (DN1),

Start 8:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Petra_33 (CV),

Start 10:
• Found in 2 of 20 (10.0%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: LittleRon_33 (FA),

Summary by clusters:

There are 7 clusters represented in this pham: DN, FA, CY4, DB, DN4, DN1, CV,

Info for manual annotations of cluster CV:
•Start number 4 was manually annotated 3 times for cluster CV.
•Start number 5 was manually annotated 2 times for cluster CV.
•Start number 8 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CY4:
•Start number 4 was manually annotated 1 time for cluster CY4.

Info for manual annotations of cluster DB:
•Start number 3 was manually annotated 1 time for cluster DB.
•Start number 5 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DN:
•Start number 5 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 5 was manually annotated 6 times for cluster DN1.

Info for manual annotations of cluster DN4:
•Start number 5 was manually annotated 1 time for cluster DN4.

Gene Information:

Gene: Asapag_35 Start: 29588, Stop: 28416, Start Num: 5
Candidate Starts for Asapag_35:
(Start: 5 @29588 has 12 MA's), (14, 29492), (15, 29489), (18, 29450), (19, 29429), (21, 29390), (25, 29360), (27, 29351), (36, 29261), (38, 29252), (42, 29192), (45, 29159), (51, 29126), (62, 29060), (71, 28991), (73, 28964), (75, 28949), (76, 28946), (89, 28880), (110, 28712), (111, 28688), (118, 28649), (122, 28574), (123, 28568), (125, 28487),

Gene: Birdsong_35 Start: 29268, Stop: 28147, Start Num: 5
Candidate Starts for Birdsong_35:
(Start: 5 @29268 has 12 MA's), (14, 29172), (15, 29169), (18, 29130), (19, 29109), (21, 29070), (27, 29031), (28, 29022), (33, 28959), (34, 28953), (38, 28932), (47, 28833), (50, 28812), (53, 28788), (67, 28701), (73, 28644), (75, 28629), (76, 28626), (86, 28569), (89, 28560), (97, 28509), (103, 28473), (110, 28392), (111, 28368), (116, 28353), (118, 28329), (122, 28254), (123, 28248),

Gene: BlingBling_31 Start: 28696, Stop: 27572, Start Num: 4
Candidate Starts for BlingBling_31:
(Start: 4 @28696 has 4 MA's), (Start: 5 @28693 has 12 MA's), (6, 28666), (7, 28660), (13, 28597), (15, 28591), (21, 28486), (25, 28456), (26, 28450), (31, 28399), (32, 28381), (34, 28369), (39, 28312), (40, 28300), (41, 28297), (48, 28237), (52, 28216), (54, 28183), (56, 28174), (61, 28159), (64, 28123), (68, 28102), (79, 28024), (88, 27973), (91, 27955), (92, 27952), (99, 27904), (100, 27901), (104, 27868), (106, 27844), (108, 27835), (119, 27700), (120, 27688), (122, 27658),

Gene: BotCity_36 Start: 29154, Stop: 27982, Start Num: 5
Candidate Starts for BotCity_36:
(Start: 5 @29154 has 12 MA's), (14, 29058), (15, 29055), (18, 29016), (19, 28995), (21, 28956), (25, 28926), (27, 28917), (36, 28827), (38, 28818), (42, 28758), (45, 28725), (51, 28692), (62, 28626), (70, 28560), (71, 28557), (73, 28530), (75, 28515), (76, 28512), (89, 28446), (110, 28278), (111, 28254), (118, 28215), (122, 28140), (123, 28134), (125, 28053),

Gene: Frickyeah_33 Start: 27689, Stop: 26517, Start Num: 5
Candidate Starts for Frickyeah_33:
(Start: 5 @27689 has 12 MA's), (14, 27593), (15, 27590), (18, 27551), (19, 27530), (21, 27491), (25, 27461), (27, 27452), (36, 27362), (38, 27353), (42, 27293), (45, 27260), (51, 27227), (62, 27161), (70, 27095), (71, 27092), (73, 27065), (75, 27050), (76, 27047), (89, 26981), (110, 26813), (111, 26789), (118, 26750), (122, 26675), (123, 26669), (125, 26588),

Gene: Getalong_36 Start: 30365, Stop: 29193, Start Num: 5
Candidate Starts for Getalong_36:
(Start: 5 @30365 has 12 MA's), (14, 30269), (15, 30266), (18, 30227), (19, 30206), (21, 30167), (27, 30128), (38, 30029), (42, 29969), (47, 29930), (49, 29912), (51, 29903), (62, 29837), (70, 29771), (71, 29768), (73, 29741), (75, 29726), (76, 29723), (89, 29657), (110, 29489), (111, 29465), (118, 29426), (122, 29351), (123, 29345), (125, 29264),

Gene: Guacamole_31 Start: 28694, Stop: 27570, Start Num: 4
Candidate Starts for Guacamole_31:
(Start: 4 @28694 has 4 MA's), (Start: 5 @28691 has 12 MA's), (6, 28664), (7, 28658), (13, 28595), (15, 28589), (21, 28484), (25, 28454), (26, 28448), (31, 28397), (32, 28379), (34, 28367), (39, 28310), (41, 28295), (48, 28235), (52, 28214), (54, 28181), (56, 28172), (64, 28121), (68, 28100), (79, 28022), (88, 27971), (91, 27953), (92, 27950), (95, 27929), (99, 27902), (100, 27899), (104, 27866), (106, 27842), (108, 27833), (119, 27698), (120, 27686), (122, 27656),

Gene: Horus_35 Start: 29610, Stop: 28438, Start Num: 5
Candidate Starts for Horus_35:
(Start: 5 @29610 has 12 MA's), (14, 29514), (15, 29511), (18, 29472), (19, 29451), (21, 29412), (25, 29382), (27, 29373), (36, 29283), (38, 29274), (42, 29214), (45, 29181), (51, 29148), (62, 29082), (70, 29016), (71, 29013), (73, 28986), (75, 28971), (76, 28968), (89, 28902), (110, 28734), (111, 28710), (118, 28671), (122, 28596), (123, 28590), (125, 28509),

Gene: Jalammah_33 Start: 29377, Stop: 28205, Start Num: 5
Candidate Starts for Jalammah_33:
(Start: 5 @29377 has 12 MA's), (14, 29281), (15, 29278), (18, 29239), (19, 29218), (21, 29179), (27, 29140), (38, 29041), (42, 28981), (47, 28942), (51, 28915), (53, 28897), (62, 28849), (70, 28783), (71, 28780), (73, 28753), (75, 28738), (76, 28735), (101, 28600), (102, 28588), (110, 28501), (111, 28477), (118, 28438), (125, 28276),

Gene: JasperJr_31 Start: 28694, Stop: 27570, Start Num: 4
Candidate Starts for JasperJr_31:
(Start: 4 @28694 has 4 MA's), (Start: 5 @28691 has 12 MA's), (6, 28664), (7, 28658), (13, 28595), (15, 28589), (21, 28484), (25, 28454), (26, 28448), (31, 28397), (32, 28379), (34, 28367), (39, 28310), (41, 28295), (48, 28235), (52, 28214), (54, 28181), (56, 28172), (64, 28121), (68, 28100), (79, 28022), (88, 27971), (91, 27953), (92, 27950), (95, 27929), (99, 27902), (100, 27899), (104, 27866), (106, 27842), (108, 27833), (119, 27698), (120, 27686), (122, 27656),

Gene: Kiko_34 Start: 26950, Stop: 25895, Start Num: 3
Candidate Starts for Kiko_34:
(1, 27016), (2, 27007), (Start: 3 @26950 has 1 MA's), (Start: 5 @26932 has 12 MA's), (12, 26839), (21, 26734), (30, 26656), (31, 26644), (33, 26620), (35, 26611), (37, 26596), (38, 26593), (49, 26479), (52, 26467), (55, 26434), (58, 26422), (62, 26407), (63, 26395), (67, 26371), (77, 26290), (80, 26275), (82, 26260), (90, 26221), (93, 26212), (99, 26167), (109, 26098), (112, 26041), (113, 26038), (120, 25957), (121, 25951), (122, 25933), (124, 25921),

Gene: Kuwabara_34 Start: 28920, Stop: 27799, Start Num: 5
Candidate Starts for Kuwabara_34:
(Start: 5 @28920 has 12 MA's), (14, 28824), (15, 28821), (18, 28782), (19, 28761), (21, 28722), (27, 28683), (28, 28674), (33, 28611), (34, 28605), (38, 28584), (47, 28485), (50, 28464), (53, 28440), (71, 28323), (73, 28296), (76, 28278), (83, 28236), (97, 28161), (110, 28044), (111, 28020), (116, 28005), (122, 27906), (123, 27900),

Gene: Leroy_35 Start: 29611, Stop: 28439, Start Num: 5
Candidate Starts for Leroy_35:
(Start: 5 @29611 has 12 MA's), (14, 29515), (15, 29512), (18, 29473), (19, 29452), (21, 29413), (25, 29383), (27, 29374), (36, 29284), (38, 29275), (42, 29215), (45, 29182), (51, 29149), (62, 29083), (70, 29017), (71, 29014), (73, 28987), (75, 28972), (76, 28969), (89, 28903), (110, 28735), (111, 28711), (118, 28672), (122, 28597), (123, 28591), (125, 28510),

Gene: LittleRon_33 Start: 24789, Stop: 23812, Start Num: 10
Candidate Starts for LittleRon_33:
(9, 24810), (10, 24789), (17, 24732), (20, 24693), (21, 24660), (23, 24648), (24, 24633), (29, 24603), (31, 24570), (33, 24546), (43, 24453), (44, 24438), (46, 24423), (57, 24348), (59, 24342), (66, 24294), (69, 24270), (72, 24237), (74, 24222), (78, 24204), (98, 24090), (101, 24081), (105, 24033), (107, 24024), (117, 23931),

Gene: MintFen_31 Start: 28697, Stop: 27525, Start Num: 5
Candidate Starts for MintFen_31:
(Start: 5 @28697 has 12 MA's), (14, 28601), (15, 28598), (18, 28559), (19, 28538), (21, 28499), (27, 28460), (38, 28361), (42, 28301), (47, 28262), (49, 28244), (62, 28169), (67, 28130), (70, 28103), (71, 28100), (73, 28073), (75, 28058), (76, 28055), (96, 27950), (101, 27920), (110, 27821), (111, 27797), (118, 27758), (121, 27704), (122, 27683), (125, 27596),

Gene: Periwinkle_37 Start: 30055, Stop: 28883, Start Num: 5
Candidate Starts for Periwinkle_37:
(Start: 5 @30055 has 12 MA's), (14, 29959), (15, 29956), (18, 29917), (19, 29896), (21, 29857), (25, 29827), (27, 29818), (36, 29728), (38, 29719), (42, 29659), (45, 29626), (51, 29593), (62, 29527), (70, 29461), (71, 29458), (73, 29431), (75, 29416), (76, 29413), (89, 29347), (110, 29179), (111, 29155), (118, 29116), (122, 29041), (123, 29035), (125, 28954),

Gene: Petra_33 Start: 28081, Stop: 27083, Start Num: 8
Candidate Starts for Petra_33:
(Start: 8 @28081 has 1 MA's), (10, 28057), (11, 28033), (16, 28003), (19, 27967), (21, 27928), (23, 27916), (24, 27901), (32, 27820), (57, 27610), (60, 27601), (63, 27577), (65, 27565), (72, 27505), (81, 27454), (84, 27433), (85, 27424), (87, 27421), (93, 27394), (94, 27391), (104, 27316), (114, 27205), (115, 27199),

Gene: Posh_32 Start: 28812, Stop: 27688, Start Num: 4
Candidate Starts for Posh_32:
(Start: 4 @28812 has 4 MA's), (Start: 5 @28809 has 12 MA's), (6, 28782), (7, 28776), (13, 28713), (15, 28707), (21, 28602), (25, 28572), (26, 28566), (31, 28515), (32, 28497), (34, 28485), (39, 28428), (41, 28413), (48, 28353), (52, 28332), (54, 28299), (56, 28290), (64, 28239), (66, 28227), (68, 28218), (79, 28140), (88, 28089), (91, 28071), (92, 28068), (95, 28047), (99, 28020), (100, 28017), (104, 27984), (106, 27960), (108, 27951), (120, 27804), (122, 27774),

Gene: Schnabeltier_30 Start: 27733, Stop: 26561, Start Num: 5
Candidate Starts for Schnabeltier_30:
(Start: 5 @27733 has 12 MA's), (14, 27637), (15, 27634), (18, 27595), (19, 27574), (21, 27535), (27, 27496), (38, 27397), (42, 27337), (47, 27298), (49, 27280), (62, 27205), (70, 27139), (71, 27136), (73, 27109), (75, 27094), (76, 27091), (101, 26956), (110, 26857), (111, 26833), (118, 26794), (121, 26740), (122, 26719), (125, 26632),

Gene: Whitney_39 Start: 31839, Stop: 30718, Start Num: 5
Candidate Starts for Whitney_39:
(Start: 5 @31839 has 12 MA's), (14, 31743), (15, 31740), (18, 31701), (21, 31641), (22, 31635), (27, 31602), (28, 31593), (33, 31530), (34, 31524), (38, 31503), (42, 31443), (47, 31404), (49, 31386), (53, 31359), (70, 31245), (71, 31242), (73, 31215), (76, 31197), (83, 31155), (97, 31080), (110, 30963), (111, 30939), (116, 30924), (122, 30825), (123, 30819),