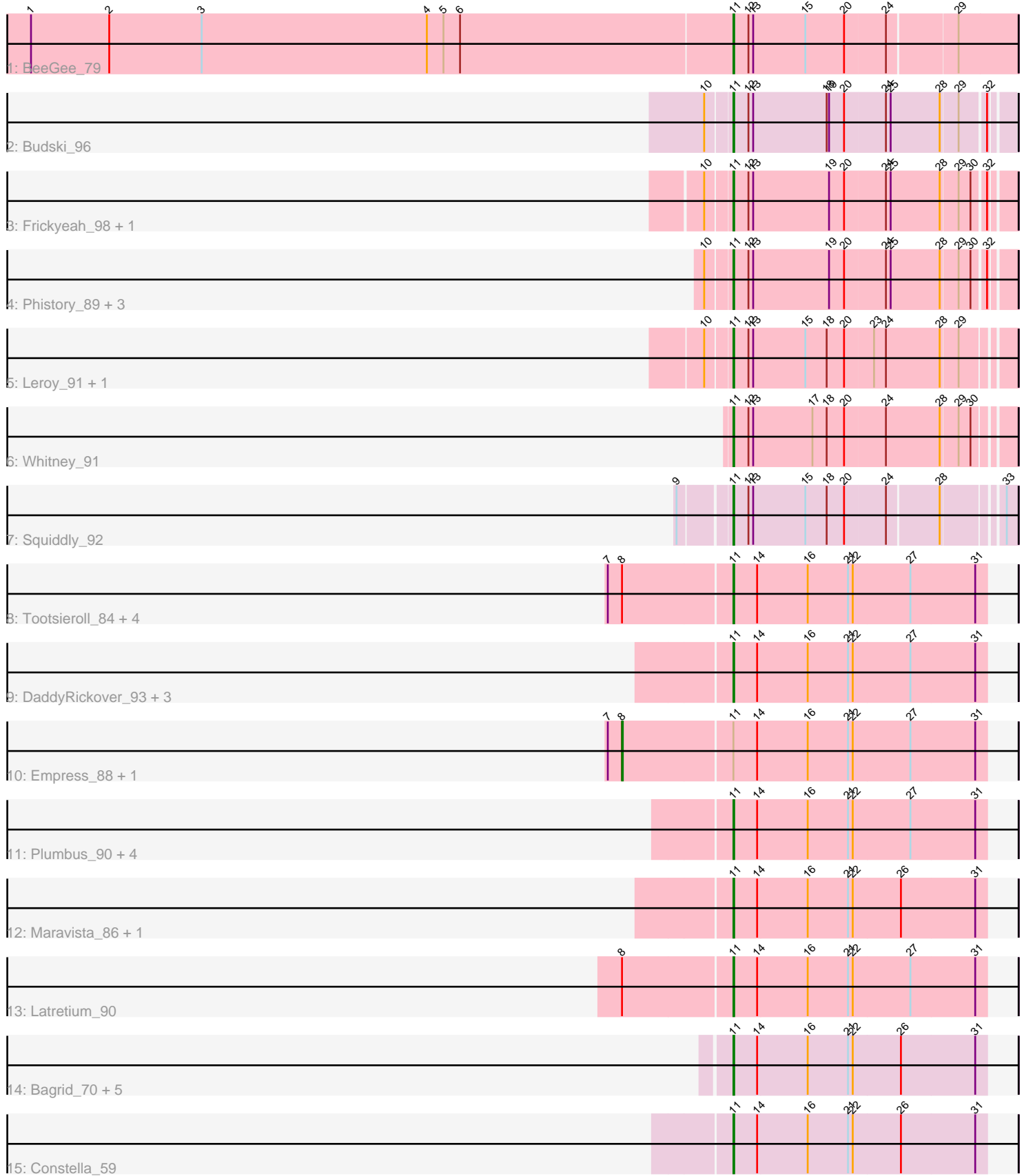


Pham 86011



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 86011 Report

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

Pham number 86011 has 38 members, 3 are drafts.

Phages represented in each track:

- Track 1 : BeeGee_79
- Track 2 : Budski_96
- Track 3 : Frickyeh_98, Periwinkle_100
- Track 4 : Phistory_89, Crater_91, Ecliptus_98, Apricot_91
- Track 5 : Leroy_91, Horus_92
- Track 6 : Whitney_91
- Track 7 : Squiddly_92
- Track 8 : Tootsieroll_84, Scottish_88, KingMidas_88, Polka14_93, Doomphist_92
- Track 9 : DaddyRickover_93, Pippy_84, EleanorGeorge_91, Ramsey_94
- Track 10 : Empress_88, Poenanya_92
- Track 11 : Plumbus_90, Duke13_75, Pollywog_91, BAKA_77, Radiance_86
- Track 12 : Maravista_86, Zizzle_92
- Track 13 : Latretium_90
- Track 14 : Bagrid_70, Pound_72, Optimus_75, Cornie_86, EricMillard_70, Thibault_63
- Track 15 : Constella_59

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

The start number called the most often in the published annotations is 11, it was called in 33 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Apricot_91, BAKA_77, Bagrid_70, BeeGee_79, Budski_96, Constella_59, Cornie_86, Crater_91, DaddyRickover_93, Doomphist_92, Duke13_75, Ecliptus_98, EleanorGeorge_91, EricMillard_70, Frickyeh_98, Horus_92, KingMidas_88, Latretium_90, Leroy_91, Maravista_86, Optimus_75, Periwinkle_100, Phistory_89, Pippy_84, Plumbus_90, Polka14_93, Pollywog_91, Pound_72, Radiance_86, Ramsey_94, Scottish_88, Squiddly_92, Thibault_63, Tootsieroll_84, Whitney_91, Zizzle_92,

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

- Empress_88, Poenanya_92,

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

-

Summary by start number:

Start 8:

- Found in 8 of 38 (21.1%) of genes in pham
- Manual Annotations of this start: 2 of 35
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Empress_88 (F1), Poenanya_92 (F1),

Start 11:

- Found in 38 of 38 (100.0%) of genes in pham
- Manual Annotations of this start: 33 of 35
- Called 94.7% of time when present
- Phage (with cluster) where this start called: Apricot_91 (DN3), BAKA_77 (J), Bagrid_70 (J), BeeGee_79 (CY), Budski_96 (DN), Constella_59 (J), Cornie_86 (F5), Crater_91 (DN3), DaddyRickover_93 (F1), Doomphist_92 (F1), Duke13_75 (J), Ecliptus_98 (DN), EleanorGeorge_91 (F1), EricMillard_70 (J), Frickyeh_98 (DN1), Horus_92 (DN1), KingMidas_88 (F1), Latretium_90 (F1), Leroy_91 (DN1), Maravista_86 (F1), Optimus_75 (J), Periwinkle_100 (DN1), Phistory_89 (DN1), Pippy_84 (F1), Plumbus_90 (F1), Polka14_93 (F1), Pollywog_91 (F1), Pound_72 (J), Radiance_86 (F1), Ramsey_94 (F1), Scottish_88 (F1), Squiddly_92 (DN2), Thibault_63 (J), Tootsieroll_84 (F1), Whitney_91 (DN1), Zizzle_92 (F1),

Summary by clusters:

There are 8 clusters represented in this pham: DN, F1, F5, J, CY, DN1, DN3, DN2,

Info for manual annotations of cluster CY:

- Start number 11 was manually annotated 1 time for cluster CY.

Info for manual annotations of cluster DN:

- Start number 11 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 11 was manually annotated 5 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 11 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DN3:

- Start number 11 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster F1:

- Start number 8 was manually annotated 2 times for cluster F1.
- Start number 11 was manually annotated 14 times for cluster F1.

Info for manual annotations of cluster F5:

- Start number 11 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster J:

- Start number 11 was manually annotated 7 times for cluster J.

Gene Information:

Gene: Apricot_91 Start: 48833, Stop: 49168, Start Num: 11

Candidate Starts for Apricot_91:

(10, 48803), (Start: 11 @48833 has 33 MA's), (12, 48851), (13, 48857), (19, 48953), (20, 48971), (24, 49022), (25, 49028), (28, 49088), (29, 49109), (30, 49124), (32, 49139),

Gene: BAKA_77 Start: 51330, Stop: 51013, Start Num: 11

Candidate Starts for BAKA_77:

(Start: 11 @51330 has 33 MA's), (14, 51300), (16, 51237), (21, 51186), (22, 51180), (27, 51108), (31, 51027),

Gene: Bagrid_70 Start: 49480, Stop: 49163, Start Num: 11

Candidate Starts for Bagrid_70:

(Start: 11 @49480 has 33 MA's), (14, 49450), (16, 49387), (21, 49336), (22, 49330), (26, 49270), (31, 49177),

Gene: BeeGee_79 Start: 49744, Stop: 50091, Start Num: 11

Candidate Starts for BeeGee_79:

(1, 48859), (2, 48958), (3, 49075), (4, 49360), (5, 49381), (6, 49402), (Start: 11 @49744 has 33 MA's), (12, 49762), (13, 49768), (15, 49834), (20, 49882), (24, 49933), (29, 50017),

Gene: Budski_96 Start: 51984, Stop: 52316, Start Num: 11

Candidate Starts for Budski_96:

(10, 51954), (Start: 11 @51984 has 33 MA's), (12, 52002), (13, 52008), (18, 52101), (19, 52104), (20, 52122), (24, 52173), (25, 52179), (28, 52239), (29, 52260), (32, 52290),

Gene: Constella_59 Start: 44996, Stop: 44679, Start Num: 11

Candidate Starts for Constella_59:

(Start: 11 @44996 has 33 MA's), (14, 44966), (16, 44903), (21, 44852), (22, 44846), (26, 44786), (31, 44693),

Gene: Cornie_86 Start: 49958, Stop: 50275, Start Num: 11

Candidate Starts for Cornie_86:

(Start: 11 @49958 has 33 MA's), (14, 49988), (16, 50051), (21, 50102), (22, 50108), (26, 50168), (31, 50261),

Gene: Crater_91 Start: 49177, Stop: 49512, Start Num: 11

Candidate Starts for Crater_91:

(10, 49147), (Start: 11 @49177 has 33 MA's), (12, 49195), (13, 49201), (19, 49297), (20, 49315), (24, 49366), (25, 49372), (28, 49432), (29, 49453), (30, 49468), (32, 49483),

Gene: DaddyRickover_93 Start: 52214, Stop: 52531, Start Num: 11

Candidate Starts for DaddyRickover_93:

(Start: 11 @52214 has 33 MA's), (14, 52244), (16, 52307), (21, 52358), (22, 52364), (27, 52436), (31, 52517),

Gene: Doomphist_92 Start: 51795, Stop: 52112, Start Num: 11

Candidate Starts for Doomphist_92:

(7, 51642), (Start: 8 @51660 has 2 MA's), (Start: 11 @51795 has 33 MA's), (14, 51825), (16, 51888), (21, 51939), (22, 51945), (27, 52017), (31, 52098),

Gene: Duke13_75 Start: 50542, Stop: 50225, Start Num: 11

Candidate Starts for Duke13_75:

(Start: 11 @50542 has 33 MA's), (14, 50512), (16, 50449), (21, 50398), (22, 50392), (27, 50320), (31, 50239),

Gene: Ecliptus_98 Start: 52376, Stop: 52711, Start Num: 11

Candidate Starts for Ecliptus_98:

(10, 52346), (Start: 11 @52376 has 33 MA's), (12, 52394), (13, 52400), (19, 52496), (20, 52514), (24, 52565), (25, 52571), (28, 52631), (29, 52652), (30, 52667), (32, 52682),

Gene: EleanorGeorge_91 Start: 52062, Stop: 52379, Start Num: 11

Candidate Starts for EleanorGeorge_91:

(Start: 11 @52062 has 33 MA's), (14, 52092), (16, 52155), (21, 52206), (22, 52212), (27, 52284), (31, 52365),

Gene: Empress_88 Start: 50655, Stop: 51107, Start Num: 8

Candidate Starts for Empress_88:

(7, 50637), (Start: 8 @50655 has 2 MA's), (Start: 11 @50790 has 33 MA's), (14, 50820), (16, 50883), (21, 50934), (22, 50940), (27, 51012), (31, 51093),

Gene: EricMillard_70 Start: 50333, Stop: 50016, Start Num: 11

Candidate Starts for EricMillard_70:

(Start: 11 @50333 has 33 MA's), (14, 50303), (16, 50240), (21, 50189), (22, 50183), (26, 50123), (31, 50030),

Gene: Frickyeah_98 Start: 51123, Stop: 51458, Start Num: 11

Candidate Starts for Frickyeah_98:

(10, 51093), (Start: 11 @51123 has 33 MA's), (12, 51141), (13, 51147), (19, 51243), (20, 51261), (24, 51312), (25, 51318), (28, 51378), (29, 51399), (30, 51414), (32, 51429),

Gene: Horus_92 Start: 51398, Stop: 51733, Start Num: 11

Candidate Starts for Horus_92:

(10, 51368), (Start: 11 @51398 has 33 MA's), (12, 51416), (13, 51422), (15, 51488), (18, 51515), (20, 51536), (23, 51572), (24, 51587), (28, 51653), (29, 51674),

Gene: KingMidas_88 Start: 51021, Stop: 51338, Start Num: 11

Candidate Starts for KingMidas_88:

(7, 50868), (Start: 8 @50886 has 2 MA's), (Start: 11 @51021 has 33 MA's), (14, 51051), (16, 51114), (21, 51165), (22, 51171), (27, 51243), (31, 51324),

Gene: Latretium_90 Start: 50847, Stop: 51164, Start Num: 11

Candidate Starts for Latretium_90:

(Start: 8 @50712 has 2 MA's), (Start: 11 @50847 has 33 MA's), (14, 50877), (16, 50940), (21, 50991), (22, 50997), (27, 51069), (31, 51150),

Gene: Leroy_91 Start: 49593, Stop: 49928, Start Num: 11

Candidate Starts for Leroy_91:

(10, 49563), (Start: 11 @49593 has 33 MA's), (12, 49611), (13, 49617), (15, 49683), (18, 49710), (20, 49731), (23, 49767), (24, 49782), (28, 49848), (29, 49869),

Gene: Maravista_86 Start: 52330, Stop: 52647, Start Num: 11

Candidate Starts for Maravista_86:

(Start: 11 @52330 has 33 MA's), (14, 52360), (16, 52423), (21, 52474), (22, 52480), (26, 52540), (31, 52633),

Gene: Optimus_75 Start: 51048, Stop: 50731, Start Num: 11

Candidate Starts for Optimus_75:

(Start: 11 @51048 has 33 MA's), (14, 51018), (16, 50955), (21, 50904), (22, 50898), (26, 50838), (31, 50745),

Gene: Periwinkle_100 Start: 52400, Stop: 52735, Start Num: 11

Candidate Starts for Periwinkle_100:

(10, 52370), (Start: 11 @52400 has 33 MA's), (12, 52418), (13, 52424), (19, 52520), (20, 52538), (24, 52589), (25, 52595), (28, 52655), (29, 52676), (30, 52691), (32, 52706),

Gene: Phistory_89 Start: 48441, Stop: 48776, Start Num: 11

Candidate Starts for Phistory_89:

(10, 48411), (Start: 11 @48441 has 33 MA's), (12, 48459), (13, 48465), (19, 48561), (20, 48579), (24, 48630), (25, 48636), (28, 48696), (29, 48717), (30, 48732), (32, 48747),

Gene: Pippy_84 Start: 49382, Stop: 49699, Start Num: 11

Candidate Starts for Pippy_84:

(Start: 11 @49382 has 33 MA's), (14, 49412), (16, 49475), (21, 49526), (22, 49532), (27, 49604), (31, 49685),

Gene: Plumbus_90 Start: 48540, Stop: 48857, Start Num: 11

Candidate Starts for Plumbus_90:

(Start: 11 @48540 has 33 MA's), (14, 48570), (16, 48633), (21, 48684), (22, 48690), (27, 48762), (31, 48843),

Gene: Poenanya_92 Start: 51660, Stop: 52112, Start Num: 8

Candidate Starts for Poenanya_92:

(7, 51642), (Start: 8 @51660 has 2 MA's), (Start: 11 @51795 has 33 MA's), (14, 51825), (16, 51888), (21, 51939), (22, 51945), (27, 52017), (31, 52098),

Gene: Polka14_93 Start: 52585, Stop: 52902, Start Num: 11

Candidate Starts for Polka14_93:

(7, 52432), (Start: 8 @52450 has 2 MA's), (Start: 11 @52585 has 33 MA's), (14, 52615), (16, 52678), (21, 52729), (22, 52735), (27, 52807), (31, 52888),

Gene: Pollywog_91 Start: 52427, Stop: 52744, Start Num: 11

Candidate Starts for Pollywog_91:

(Start: 11 @52427 has 33 MA's), (14, 52457), (16, 52520), (21, 52571), (22, 52577), (27, 52649), (31, 52730),

Gene: Pound_72 Start: 52197, Stop: 51880, Start Num: 11

Candidate Starts for Pound_72:

(Start: 11 @52197 has 33 MA's), (14, 52167), (16, 52104), (21, 52053), (22, 52047), (26, 51987), (31, 51894),

Gene: Radiance_86 Start: 50713, Stop: 51030, Start Num: 11

Candidate Starts for Radiance_86:

(Start: 11 @50713 has 33 MA's), (14, 50743), (16, 50806), (21, 50857), (22, 50863), (27, 50935), (31, 51016),

Gene: Ramsey_94 Start: 52849, Stop: 53166, Start Num: 11

Candidate Starts for Ramsey_94:

(Start: 11 @52849 has 33 MA's), (14, 52879), (16, 52942), (21, 52993), (22, 52999), (27, 53071), (31, 53152),

Gene: Scottish_88 Start: 50460, Stop: 50777, Start Num: 11

Candidate Starts for Scottish_88:

(7, 50307), (Start: 8 @50325 has 2 MA's), (Start: 11 @50460 has 33 MA's), (14, 50490), (16, 50553), (21, 50604), (22, 50610), (27, 50682), (31, 50763),

Gene: Squiddly_92 Start: 53718, Stop: 54050, Start Num: 11

Candidate Starts for Squiddly_92:

(9, 53661), (Start: 11 @53718 has 33 MA's), (12, 53736), (13, 53742), (15, 53808), (18, 53835), (20, 53856), (24, 53907), (28, 53970), (33, 54036),

Gene: Thibault_63 Start: 46638, Stop: 46321, Start Num: 11

Candidate Starts for Thibault_63:

(Start: 11 @46638 has 33 MA's), (14, 46608), (16, 46545), (21, 46494), (22, 46488), (26, 46428), (31, 46335),

Gene: Tootsieroll_84 Start: 51270, Stop: 51587, Start Num: 11

Candidate Starts for Tootsieroll_84:

(7, 51117), (Start: 8 @51135 has 2 MA's), (Start: 11 @51270 has 33 MA's), (14, 51300), (16, 51363), (21, 51414), (22, 51420), (27, 51492), (31, 51573),

Gene: Whitney_91 Start: 51855, Stop: 52190, Start Num: 11

Candidate Starts for Whitney_91:

(Start: 11 @51855 has 33 MA's), (12, 51873), (13, 51879), (17, 51954), (18, 51972), (20, 51993), (24, 52044), (28, 52110), (29, 52131), (30, 52146),

Gene: Zizzle_92 Start: 52369, Stop: 52686, Start Num: 11

Candidate Starts for Zizzle_92:

(Start: 11 @52369 has 33 MA's), (14, 52399), (16, 52462), (21, 52513), (22, 52519), (26, 52579), (31, 52672),