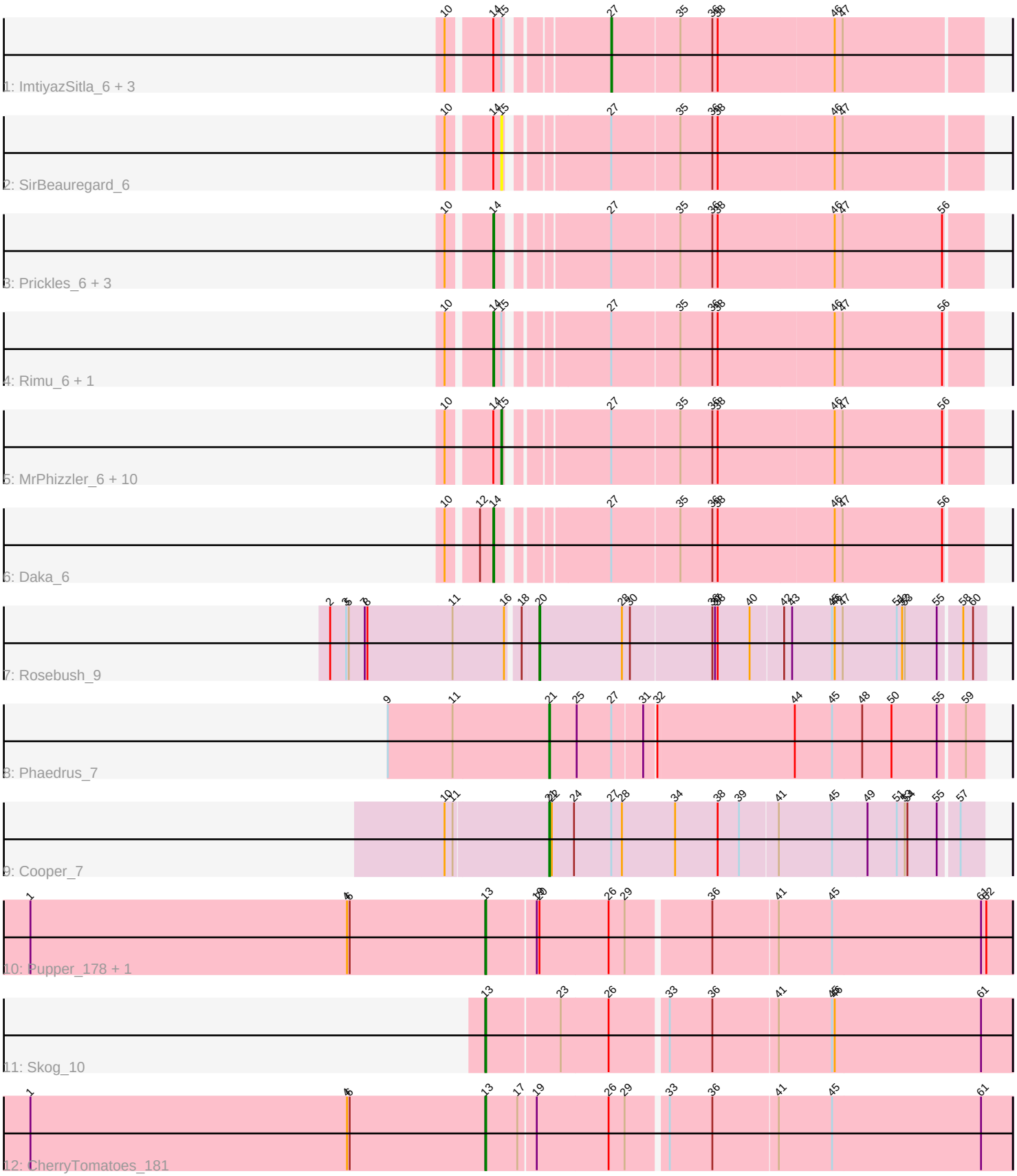
Pham 347903


1: ImtiyazSitla_6 + 3
2: SirBeauregard_6
3: Prickles_6 + 3
4: Rimu_6 + 1
5: MrPhizzler_6 + 10
6: Daka_6
7: Rosebush_9
8: Phaedrus_7
9: Cooper_7
10: Pupper_178 + 1
11: Skog_10
12: CherryTomatoes_181

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 347903 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347903 has 30 members, 7 are drafts.

Phages represented in each track:
• Track 1 : ImtiyazSitla_6, Maskar_6, Etaye_6, Ashraf_6
• Track 2 : SirBeauregard_6
• Track 3 : Prickles_6, FluffyNinja_6, EmGer13_6, Lehmann_7
• Track 4 : Rimu_6, SallyH_7
• Track 5 : MrPhizzler_6, Jbug01_6, Taraxa_6, Schueller_6, Charles1_6, Thunderbird_6, Karn_6, Katniss_6, Andre_6, Khan1_6, Swiphy_6
• Track 6 : Daka_6
• Track 7 : Rosebush_9
• Track 8 : Phaedrus_7
• Track 9 : Cooper_7
• Track 10 : Pupper_178, SCentae_177
• Track 11 : Skog_10
• Track 12 : CherryTomatoes_181

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

The start number called the most often in the published annotations is 15, it was called in 8 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Andre_6, Charles1_6, Jbug01_6, Karn_6, Katniss_6, Khan1_6, MrPhizzler_6, Schueller_6, SirBeauregard_6, Swiphy_6, Taraxa_6, Thunderbird_6,

Genes that have the "Most Annotated" start but do not call it:
• Ashraf_6, Etaye_6, ImtiyazSitla_6, Maskar_6, Rimu_6, SallyH_7,

Genes that do not have the "Most Annotated" start:
• CherryTomatoes_181, Cooper_7, Daka_6, EmGer13_6, FluffyNinja_6, Lehmann_7, Phaedrus_7, Prickles_6, Pupper_178, Rosebush_9, SCentae_177, Skog_10,

Summary by start number:

Start 13:
• Found in 4 of 30 (13.3%) of genes in pham

• Manual Annotations of this start: 4 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CherryTomatoes_181 (DO), Pupper_178 (DO), SCentae_177 (DO), Skog_10 (DO),

Start 14:
• Found in 23 of 30 (76.7%) of genes in pham
• Manual Annotations of this start: 4 of 23
• Called 30.4% of time when present
• Phage (with cluster) where this start called: Daka_6 (B1), EmGer13_6 (B1), FluffyNinja_6 (B1), Lehmann_7 (B1), Prickles_6 (B1), Rimu_6 (B1), SallyH_7 (B1),

Start 15:
• Found in 18 of 30 (60.0%) of genes in pham
• Manual Annotations of this start: 8 of 23
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Andre_6 (B1), Charles1_6 (B1), Jbug01_6 (B1), Karn_6 (B1), Katniss_6 (B1), Khan1_6 (B1), MrPhizzler_6 (B1), Schueller_6 (B1), SirBeauregard_6 (B1), Swiphy_6 (B1), Taraxa_6 (B1), Thunderbird_6 (B1),

Start 20:
• Found in 3 of 30 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Rosebush_9 (B2),

Start 21:
• Found in 2 of 30 (6.7%) of genes in pham
• Manual Annotations of this start: 2 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cooper_7 (B4), Phaedrus_7 (B3),

Start 27:
• Found in 25 of 30 (83.3%) of genes in pham
• Manual Annotations of this start: 4 of 23
• Called 16.0% of time when present
• Phage (with cluster) where this start called: Ashraf_6 (B1), Etaye_6 (B1), ImtiyazSitla_6 (B1), Maskar_6 (B1),

Summary by clusters:

There are 5 clusters represented in this pham: B4, DO, B1, B2, B3,

Info for manual annotations of cluster B1:
•Start number 14 was manually annotated 4 times for cluster B1.
•Start number 15 was manually annotated 8 times for cluster B1.
•Start number 27 was manually annotated 4 times for cluster B1.

Info for manual annotations of cluster B2:
•Start number 20 was manually annotated 1 time for cluster B2.

Info for manual annotations of cluster B3:

•Start number 21 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster B4:
•Start number 21 was manually annotated 1 time for cluster B4.

Info for manual annotations of cluster DO:
•Start number 13 was manually annotated 4 times for cluster DO.

Gene Information:

Gene: Andre_6 Start: 3865, Stop: 3365, Start Num: 15
Candidate Starts for Andre_6:
(10, 3919), (Start: 14 @3874 has 4 MA's), (Start: 15 @3865 has 8 MA's), (Start: 27 @3769 has 4 MA's), (35, 3694), (36, 3658), (38, 3652), (46, 3523), (47, 3514), (56, 3403),

Gene: Ashraf_6 Start: 3765, Stop: 3361, Start Num: 27
Candidate Starts for Ashraf_6:
(10, 3915), (Start: 14 @3870 has 4 MA's), (Start: 15 @3861 has 8 MA's), (Start: 27 @3765 has 4 MA's), (35, 3690), (36, 3654), (38, 3648), (46, 3519), (47, 3510),

Gene: Charles1_6 Start: 3864, Stop: 3364, Start Num: 15
Candidate Starts for Charles1_6:
(10, 3918), (Start: 14 @3873 has 4 MA's), (Start: 15 @3864 has 8 MA's), (Start: 27 @3768 has 4 MA's), (35, 3693), (36, 3657), (38, 3651), (46, 3522), (47, 3513), (56, 3402),

Gene: CherryTomatoes_181 Start: 130723, Stop: 131295, Start Num: 13
Candidate Starts for CherryTomatoes_181:
(1, 130210), (4, 130567), (6, 130570), (Start: 13 @130723 has 4 MA's), (17, 130759), (19, 130777), (26, 130855), (29, 130873), (33, 130915), (36, 130963), (41, 131035), (45, 131095), (61, 131260),

Gene: Cooper_7 Start: 5099, Stop: 4623, Start Num: 21
Candidate Starts for Cooper_7:
(10, 5213), (11, 5204), (Start: 21 @5099 has 2 MA's), (22, 5096), (24, 5072), (Start: 27 @5030 has 4 MA's), (28, 5018), (34, 4958), (38, 4910), (39, 4886), (41, 4844), (45, 4784), (49, 4745), (51, 4712), (53, 4703), (54, 4700), (55, 4667), (57, 4646),

Gene: Daka_6 Start: 3876, Stop: 3367, Start Num: 14
Candidate Starts for Daka_6:
(10, 3921), (12, 3891), (Start: 14 @3876 has 4 MA's), (Start: 27 @3771 has 4 MA's), (35, 3696), (36, 3660), (38, 3654), (46, 3525), (47, 3516), (56, 3405),

Gene: EmGer13_6 Start: 3873, Stop: 3364, Start Num: 14
Candidate Starts for EmGer13_6:
(10, 3918), (Start: 14 @3873 has 4 MA's), (Start: 27 @3768 has 4 MA's), (35, 3693), (36, 3657), (38, 3651), (46, 3522), (47, 3513), (56, 3402),

Gene: Etaye_6 Start: 3765, Stop: 3361, Start Num: 27
Candidate Starts for Etaye_6:
(10, 3915), (Start: 14 @3870 has 4 MA's), (Start: 15 @3861 has 8 MA's), (Start: 27 @3765 has 4 MA's), (35, 3690), (36, 3654), (38, 3648), (46, 3519), (47, 3510),

Gene: FluffyNinja_6 Start: 3871, Stop: 3362, Start Num: 14
Candidate Starts for FluffyNinja_6:
(10, 3916), (Start: 14 @3871 has 4 MA's), (Start: 27 @3766 has 4 MA's), (35, 3691), (36, 3655), (38, 3649), (46, 3520), (47, 3511), (56, 3400),

Gene: ImtiyazSitla_6 Start: 3765, Stop: 3361, Start Num: 27
Candidate Starts for ImtiyazSitla_6:
(10, 3915), (Start: 14 @3870 has 4 MA's), (Start: 15 @3861 has 8 MA's), (Start: 27 @3765 has 4 MA's), (35, 3690), (36, 3654), (38, 3648), (46, 3519), (47, 3510),

Gene: Jbug01_6 Start: 3863, Stop: 3363, Start Num: 15
Candidate Starts for Jbug01_6:
(10, 3917), (Start: 14 @3872 has 4 MA's), (Start: 15 @3863 has 8 MA's), (Start: 27 @3767 has 4 MA's), (35, 3692), (36, 3656), (38, 3650), (46, 3521), (47, 3512), (56, 3401),

Gene: Karn_6 Start: 3863, Stop: 3363, Start Num: 15
Candidate Starts for Karn_6:
(10, 3917), (Start: 14 @3872 has 4 MA's), (Start: 15 @3863 has 8 MA's), (Start: 27 @3767 has 4 MA's), (35, 3692), (36, 3656), (38, 3650), (46, 3521), (47, 3512), (56, 3401),

Gene: Katniss_6 Start: 3865, Stop: 3365, Start Num: 15
Candidate Starts for Katniss_6:
(10, 3919), (Start: 14 @3874 has 4 MA's), (Start: 15 @3865 has 8 MA's), (Start: 27 @3769 has 4 MA's), (35, 3694), (36, 3658), (38, 3652), (46, 3523), (47, 3514), (56, 3403),

Gene: Khan1_6 Start: 3863, Stop: 3363, Start Num: 15
Candidate Starts for Khan1_6:
(10, 3917), (Start: 14 @3872 has 4 MA's), (Start: 15 @3863 has 8 MA's), (Start: 27 @3767 has 4 MA's), (35, 3692), (36, 3656), (38, 3650), (46, 3521), (47, 3512), (56, 3401),

Gene: Lehmann_7 Start: 3873, Stop: 3364, Start Num: 14
Candidate Starts for Lehmann_7:
(10, 3918), (Start: 14 @3873 has 4 MA's), (Start: 27 @3768 has 4 MA's), (35, 3693), (36, 3657), (38, 3651), (46, 3522), (47, 3513), (56, 3402),

Gene: Maskar_6 Start: 3765, Stop: 3361, Start Num: 27
Candidate Starts for Maskar_6:
(10, 3915), (Start: 14 @3870 has 4 MA's), (Start: 15 @3861 has 8 MA's), (Start: 27 @3765 has 4 MA's), (35, 3690), (36, 3654), (38, 3648), (46, 3519), (47, 3510),

Gene: MrPhizzler_6 Start: 3860, Stop: 3360, Start Num: 15
Candidate Starts for MrPhizzler_6:
(10, 3914), (Start: 14 @3869 has 4 MA's), (Start: 15 @3860 has 8 MA's), (Start: 27 @3764 has 4 MA's), (35, 3689), (36, 3653), (38, 3647), (46, 3518), (47, 3509), (56, 3398),

Gene: Phaedrus_7 Start: 5222, Stop: 4752, Start Num: 21
Candidate Starts for Phaedrus_7:
(9, 5402), (11, 5330), (Start: 21 @5222 has 2 MA's), (25, 5195), (Start: 27 @5156 has 4 MA's), (31, 5123), (32, 5111), (44, 4958), (45, 4916), (48, 4883), (50, 4850), (55, 4799), (59, 4772),

Gene: Prickles_6 Start: 3879, Stop: 3370, Start Num: 14
Candidate Starts for Prickles_6:

(10, 3924), (Start: 14 @3879 has 4 MA's), (Start: 27 @3774 has 4 MA's), (35, 3699), (36, 3663), (38, 3657), (46, 3528), (47, 3519), (56, 3408),

Gene: Pupper_178 Start: 130307, Stop: 130879, Start Num: 13
Candidate Starts for Pupper_178:
(1, 129794), (4, 130151), (6, 130154), (Start: 13 @130307 has 4 MA's), (19, 130361), (Start: 20 @130364 has 1 MA's), (26, 130439), (29, 130457), (36, 130547), (41, 130619), (45, 130679), (61, 130844), (62, 130850),

Gene: Rimu_6 Start: 3869, Stop: 3360, Start Num: 14
Candidate Starts for Rimu_6:
(10, 3914), (Start: 14 @3869 has 4 MA's), (Start: 15 @3860 has 8 MA's), (Start: 27 @3764 has 4 MA's), (35, 3689), (36, 3653), (38, 3647), (46, 3518), (47, 3509), (56, 3398),

Gene: Rosebush_9 Start: 6678, Stop: 7166, Start Num: 20
Candidate Starts for Rosebush_9:
(2, 6456), (3, 6474), (5, 6477), (7, 6495), (8, 6498), (11, 6591), (16, 6648), (18, 6660), (Start: 20 @6678 has 1 MA's), (28, 6771), (30, 6780), (36, 6870), (37, 6873), (38, 6876), (40, 6912), (42, 6948), (43, 6957), (45, 7002), (46, 7005), (47, 7014), (51, 7074), (52, 7080), (53, 7083), (55, 7119), (58, 7143), (60, 7152),

Gene: SCentae_177 Start: 130499, Stop: 131071, Start Num: 13
Candidate Starts for SCentae_177:
(1, 129986), (4, 130343), (6, 130346), (Start: 13 @130499 has 4 MA's), (19, 130553), (Start: 20 @130556 has 1 MA's), (26, 130631), (29, 130649), (36, 130739), (41, 130811), (45, 130871), (61, 131036), (62, 131042),

Gene: SallyH_7 Start: 3871, Stop: 3362, Start Num: 14
Candidate Starts for SallyH_7:
(10, 3916), (Start: 14 @3871 has 4 MA's), (Start: 15 @3862 has 8 MA's), (Start: 27 @3766 has 4 MA's), (35, 3691), (36, 3655), (38, 3649), (46, 3520), (47, 3511), (56, 3400),

Gene: Schueller_6 Start: 3864, Stop: 3364, Start Num: 15
Candidate Starts for Schueller_6:
(10, 3918), (Start: 14 @3873 has 4 MA's), (Start: 15 @3864 has 8 MA's), (Start: 27 @3768 has 4 MA's), (35, 3693), (36, 3657), (38, 3651), (46, 3522), (47, 3513), (56, 3402),

Gene: SirBeauregard_6 Start: 3862, Stop: 3362, Start Num: 15
Candidate Starts for SirBeauregard_6:
(10, 3916), (Start: 14 @3871 has 4 MA's), (Start: 15 @3862 has 8 MA's), (Start: 27 @3766 has 4 MA's), (35, 3691), (36, 3655), (38, 3649), (46, 3520), (47, 3511),

Gene: Skog_10 Start: 6857, Stop: 7429, Start Num: 13
Candidate Starts for Skog_10:
(Start: 13 @6857 has 4 MA's), (23, 6938), (26, 6989), (33, 7049), (36, 7097), (41, 7169), (45, 7229), (46, 7232), (61, 7394),

Gene: Swiphy_6 Start: 3864, Stop: 3364, Start Num: 15
Candidate Starts for Swiphy_6:
(10, 3918), (Start: 14 @3873 has 4 MA's), (Start: 15 @3864 has 8 MA's), (Start: 27 @3768 has 4 MA's), (35, 3693), (36, 3657), (38, 3651), (46, 3522), (47, 3513), (56, 3402),

Gene: Taraxa_6 Start: 3863, Stop: 3363, Start Num: 15

Candidate Starts for Taraxa_6:
(10, 3917), (Start: 14 @3872 has 4 MA's), (Start: 15 @3863 has 8 MA's), (Start: 27 @3767 has 4 MA's), (35, 3692), (36, 3656), (38, 3650), (46, 3521), (47, 3512), (56, 3401),

Gene: Thunderbird_6 Start: 3863, Stop: 3363, Start Num: 15
Candidate Starts for Thunderbird_6:
(10, 3917), (Start: 14 @3872 has 4 MA's), (Start: 15 @3863 has 8 MA's), (Start: 27 @3767 has 4 MA's), (35, 3692), (36, 3656), (38, 3650), (46, 3521), (47, 3512), (56, 3401),