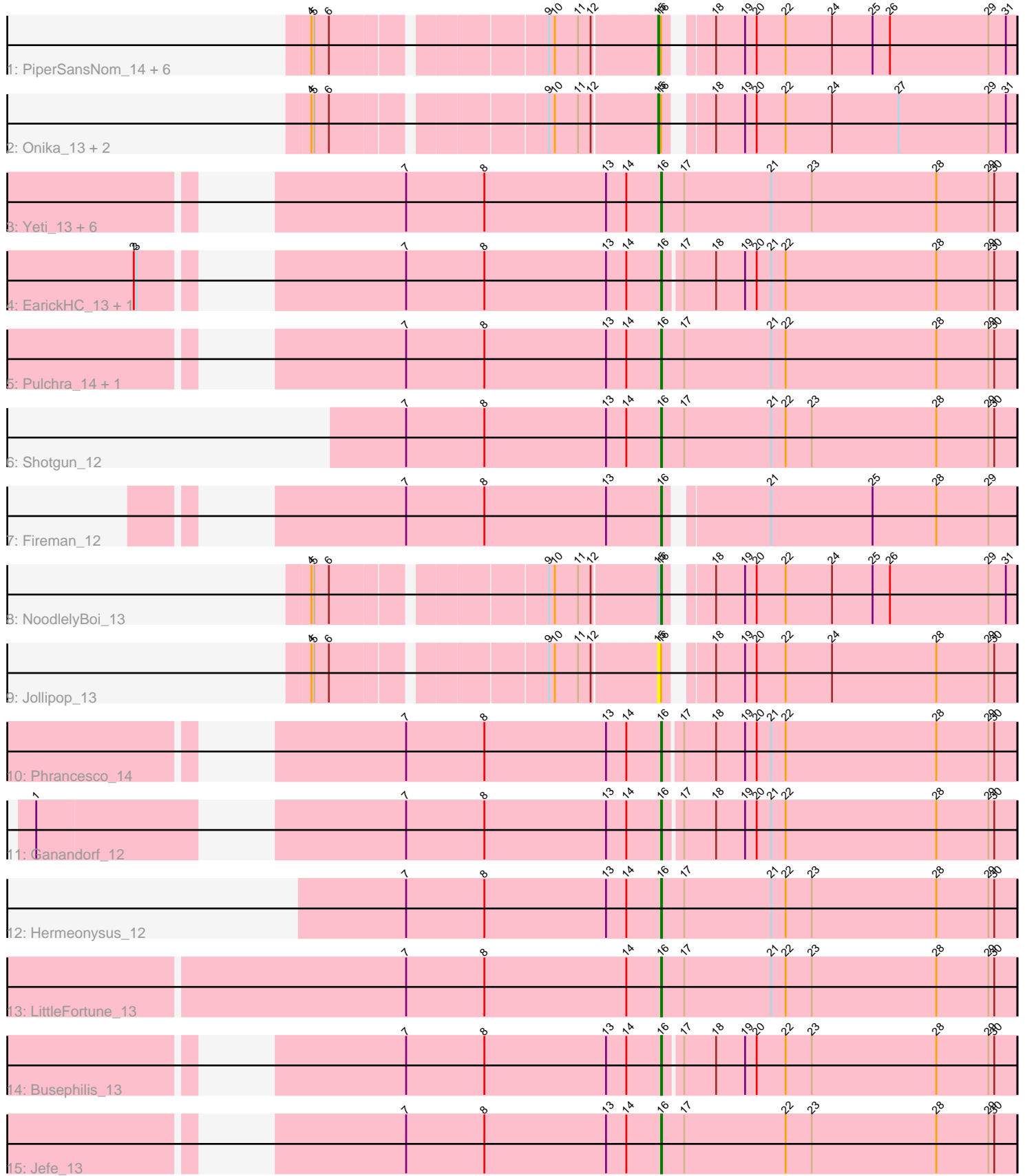


Pham 3135



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 3135 Report

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

Pham number 3135 has 31 members, 4 are drafts.

Phages represented in each track:

- Track 1 : PiperSansNom_14, Ramiel05_13, Kowalski_13, Paschalis_13, CrazyRich_13, Savannah_13, BrazzalePHS_13
- Track 2 : Onika_13, Antares_14, PierreOrion_14
- Track 3 : Yeti_13, Selwyn23_14, Cranjis_13, Piperis_13, Honeyfin_14, Scumberland_14, Phorgeous_12
- Track 4 : EarickHC_13, KaiHaiDragon_13
- Track 5 : Pulchra_14, Crisis_13
- Track 6 : Shotgun_12
- Track 7 : Fireman_12
- Track 8 : NoodlelyBoi_13
- Track 9 : Jollipop_13
- Track 10 : Phrancesco_14
- Track 11 : Ganandorf_12
- Track 12 : Hermeonysus_12
- Track 13 : LittleFortune_13
- Track 14 : Busephilis_13
- Track 15 : Jefe_13

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

The start number called the most often in the published annotations is 16, it was called in 19 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Busephilis_13, Cranjis_13, Crisis_13, EarickHC_13, Fireman_12, Ganandorf_12, Hermeonysus_12, Honeyfin_14, Jefe_13, KaiHaiDragon_13, LittleFortune_13, NoodlelyBoi_13, Phorgeous_12, Phrancesco_14, Piperis_13, Pulchra_14, Scumberland_14, Selwyn23_14, Shotgun_12, Yeti_13,

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

- Antares_14, BrazzalePHS_13, CrazyRich_13, Jollipop_13, Kowalski_13, Onika_13, Paschalis_13, PierreOrion_14, PiperSansNom_14, Ramiel05_13, Savannah_13,

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

-

Summary by start number:

Start 15:

- Found in 12 of 31 (38.7%) of genes in pham
- Manual Annotations of this start: 8 of 27
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Antares_14 (EC), BrazzalePHS_13 (EC), CrazyRich_13 (EC), Jollipop_13 (EC), Kowalski_13 (EC), Onika_13 (EC), Paschalis_13 (EC), PierreOrion_14 (EC), PiperSansNom_14 (EC), Ramiel05_13 (EC), Savannah_13 (EC),

Start 16:

- Found in 31 of 31 (100.0%) of genes in pham
- Manual Annotations of this start: 19 of 27
- Called 64.5% of time when present
- Phage (with cluster) where this start called: Busephilis_13 (EC), Cranjis_13 (EC), Crisis_13 (EC), EarickHC_13 (EC), Fireman_12 (EC), Ganandorf_12 (EC), Hermeonysus_12 (EC), Honeyfin_14 (EC), Jefe_13 (EC), KaiHaiDragon_13 (EC), LittleFortune_13 (EC), NoodlelyBoi_13 (EC), Phorgeous_12 (EC), Phrancesco_14 (EC), Piperis_13 (EC), Pulchra_14 (EC), Scumberland_14 (EC), Selwyn23_14 (EC), Shotgun_12 (EC), Yeti_13 (EC),

Summary by clusters:

There is one cluster represented in this pham: EC

Info for manual annotations of cluster EC:

- Start number 15 was manually annotated 8 times for cluster EC.
- Start number 16 was manually annotated 19 times for cluster EC.

Gene Information:

Gene: Antares_14 Start: 6260, Stop: 6610, Start Num: 15

Candidate Starts for Antares_14:

(4, 5939), (5, 5942), (6, 5957), (9, 6155), (10, 6161), (11, 6185), (12, 6197), (Start: 15 @6260 has 8 MA's), (Start: 16 @6263 has 19 MA's), (18, 6299), (19, 6329), (20, 6341), (22, 6371), (24, 6419), (27, 6488), (29, 6581), (31, 6599),

Gene: BrazzalePHS_13 Start: 6048, Stop: 6398, Start Num: 15

Candidate Starts for BrazzalePHS_13:

(4, 5727), (5, 5730), (6, 5745), (9, 5943), (10, 5949), (11, 5973), (12, 5985), (Start: 15 @6048 has 8 MA's), (Start: 16 @6051 has 19 MA's), (18, 6087), (19, 6117), (20, 6129), (22, 6159), (24, 6207), (25, 6249), (26, 6267), (29, 6369), (31, 6387),

Gene: Busephilis_13 Start: 5817, Stop: 6179, Start Num: 16

Candidate Starts for Busephilis_13:

(7, 5553), (8, 5634), (13, 5760), (14, 5781), (Start: 16 @5817 has 19 MA's), (17, 5835), (18, 5868), (19, 5898), (20, 5910), (22, 5940), (23, 5967), (28, 6096), (29, 6150), (30, 6156),

Gene: Cranjis_13 Start: 5763, Stop: 6131, Start Num: 16

Candidate Starts for Cranjis_13:

(7, 5499), (8, 5580), (13, 5706), (14, 5727), (Start: 16 @5763 has 19 MA's), (17, 5787), (21, 5877), (23, 5919), (28, 6048), (29, 6102), (30, 6108),

Gene: CrazyRich_13 Start: 6048, Stop: 6398, Start Num: 15

Candidate Starts for CrazyRich_13:

(4, 5727), (5, 5730), (6, 5745), (9, 5943), (10, 5949), (11, 5973), (12, 5985), (Start: 15 @6048 has 8 MA's), (Start: 16 @6051 has 19 MA's), (18, 6087), (19, 6117), (20, 6129), (22, 6159), (24, 6207), (25, 6249), (26, 6267), (29, 6369), (31, 6387),

Gene: Crisis_13 Start: 5763, Stop: 6131, Start Num: 16

Candidate Starts for Crisis_13:

(7, 5499), (8, 5580), (13, 5706), (14, 5727), (Start: 16 @5763 has 19 MA's), (17, 5787), (21, 5877), (22, 5892), (28, 6048), (29, 6102), (30, 6108),

Gene: EarickHC_13 Start: 5763, Stop: 6125, Start Num: 16

Candidate Starts for EarickHC_13:

(2, 5307), (3, 5310), (7, 5499), (8, 5580), (13, 5706), (14, 5727), (Start: 16 @5763 has 19 MA's), (17, 5781), (18, 5814), (19, 5844), (20, 5856), (21, 5871), (22, 5886), (28, 6042), (29, 6096), (30, 6102),

Gene: Fireman_12 Start: 5336, Stop: 5683, Start Num: 16

Candidate Starts for Fireman_12:

(7, 5072), (8, 5153), (13, 5279), (Start: 16 @5336 has 19 MA's), (21, 5429), (25, 5534), (28, 5600), (29, 5654),

Gene: Ganandorf_12 Start: 5944, Stop: 6306, Start Num: 16

Candidate Starts for Ganandorf_12:

(1, 5380), (7, 5680), (8, 5761), (13, 5887), (14, 5908), (Start: 16 @5944 has 19 MA's), (17, 5962), (18, 5995), (19, 6025), (20, 6037), (21, 6052), (22, 6067), (28, 6223), (29, 6277), (30, 6283),

Gene: Hermeonysus_12 Start: 5599, Stop: 5967, Start Num: 16

Candidate Starts for Hermeonysus_12:

(7, 5335), (8, 5416), (13, 5542), (14, 5563), (Start: 16 @5599 has 19 MA's), (17, 5623), (21, 5713), (22, 5728), (23, 5755), (28, 5884), (29, 5938), (30, 5944),

Gene: Honeyfin_14 Start: 5972, Stop: 6340, Start Num: 16

Candidate Starts for Honeyfin_14:

(7, 5708), (8, 5789), (13, 5915), (14, 5936), (Start: 16 @5972 has 19 MA's), (17, 5996), (21, 6086), (23, 6128), (28, 6257), (29, 6311), (30, 6317),

Gene: Jefe_13 Start: 5811, Stop: 6179, Start Num: 16

Candidate Starts for Jefe_13:

(7, 5547), (8, 5628), (13, 5754), (14, 5775), (Start: 16 @5811 has 19 MA's), (17, 5835), (22, 5940), (23, 5967), (28, 6096), (29, 6150), (30, 6156),

Gene: Jollipop_13 Start: 6048, Stop: 6398, Start Num: 15

Candidate Starts for Jollipop_13:

(4, 5727), (5, 5730), (6, 5745), (9, 5943), (10, 5949), (11, 5973), (12, 5985), (Start: 15 @6048 has 8 MA's), (Start: 16 @6051 has 19 MA's), (18, 6087), (19, 6117), (20, 6129), (22, 6159), (24, 6207), (28, 6315), (29, 6369), (30, 6375),

Gene: KaiHaiDragon_13 Start: 5763, Stop: 6125, Start Num: 16

Candidate Starts for KaiHaiDragon_13:

(2, 5307), (3, 5310), (7, 5499), (8, 5580), (13, 5706), (14, 5727), (Start: 16 @5763 has 19 MA's), (17, 5781), (18, 5814), (19, 5844), (20, 5856), (21, 5871), (22, 5886), (28, 6042), (29, 6096), (30, 6102),

Gene: Kowalski_13 Start: 6048, Stop: 6398, Start Num: 15

Candidate Starts for Kowalski_13:

(4, 5727), (5, 5730), (6, 5745), (9, 5943), (10, 5949), (11, 5973), (12, 5985), (Start: 15 @6048 has 8 MA's), (Start: 16 @6051 has 19 MA's), (18, 6087), (19, 6117), (20, 6129), (22, 6159), (24, 6207), (25, 6249), (26, 6267), (29, 6369), (31, 6387),

Gene: LittleFortune_13 Start: 5898, Stop: 6266, Start Num: 16

Candidate Starts for LittleFortune_13:

(7, 5634), (8, 5715), (14, 5862), (Start: 16 @5898 has 19 MA's), (17, 5922), (21, 6012), (22, 6027), (23, 6054), (28, 6183), (29, 6237), (30, 6243),

Gene: NoodlelyBoi_13 Start: 6060, Stop: 6407, Start Num: 16

Candidate Starts for NoodlelyBoi_13:

(4, 5736), (5, 5739), (6, 5754), (9, 5952), (10, 5958), (11, 5982), (12, 5994), (Start: 15 @6057 has 8 MA's), (Start: 16 @6060 has 19 MA's), (18, 6096), (19, 6126), (20, 6138), (22, 6168), (24, 6216), (25, 6258), (26, 6276), (29, 6378), (31, 6396),

Gene: Onika_13 Start: 6048, Stop: 6398, Start Num: 15

Candidate Starts for Onika_13:

(4, 5727), (5, 5730), (6, 5745), (9, 5943), (10, 5949), (11, 5973), (12, 5985), (Start: 15 @6048 has 8 MA's), (Start: 16 @6051 has 19 MA's), (18, 6087), (19, 6117), (20, 6129), (22, 6159), (24, 6207), (27, 6276), (29, 6369), (31, 6387),

Gene: Paschalis_13 Start: 6057, Stop: 6407, Start Num: 15

Candidate Starts for Paschalis_13:

(4, 5736), (5, 5739), (6, 5754), (9, 5952), (10, 5958), (11, 5982), (12, 5994), (Start: 15 @6057 has 8 MA's), (Start: 16 @6060 has 19 MA's), (18, 6096), (19, 6126), (20, 6138), (22, 6168), (24, 6216), (25, 6258), (26, 6276), (29, 6378), (31, 6396),

Gene: Phorgeous_12 Start: 5608, Stop: 5976, Start Num: 16

Candidate Starts for Phorgeous_12:

(7, 5344), (8, 5425), (13, 5551), (14, 5572), (Start: 16 @5608 has 19 MA's), (17, 5632), (21, 5722), (23, 5764), (28, 5893), (29, 5947), (30, 5953),

Gene: Phrancesco_14 Start: 5981, Stop: 6343, Start Num: 16

Candidate Starts for Phrancesco_14:

(7, 5717), (8, 5798), (13, 5924), (14, 5945), (Start: 16 @5981 has 19 MA's), (17, 5999), (18, 6032), (19, 6062), (20, 6074), (21, 6089), (22, 6104), (28, 6260), (29, 6314), (30, 6320),

Gene: PierreOrion_14 Start: 6212, Stop: 6562, Start Num: 15

Candidate Starts for PierreOrion_14:

(4, 5891), (5, 5894), (6, 5909), (9, 6107), (10, 6113), (11, 6137), (12, 6149), (Start: 15 @6212 has 8 MA's), (Start: 16 @6215 has 19 MA's), (18, 6251), (19, 6281), (20, 6293), (22, 6323), (24, 6371), (27, 6440), (29, 6533), (31, 6551),

Gene: PiperSansNom_14 Start: 6361, Stop: 6711, Start Num: 15

Candidate Starts for PiperSansNom_14:

(4, 6040), (5, 6043), (6, 6058), (9, 6256), (10, 6262), (11, 6286), (12, 6298), (Start: 15 @6361 has 8 MA's), (Start: 16 @6364 has 19 MA's), (18, 6400), (19, 6430), (20, 6442), (22, 6472), (24, 6520), (25,

6562), (26, 6580), (29, 6682), (31, 6700),

Gene: Piperis_13 Start: 5763, Stop: 6131, Start Num: 16

Candidate Starts for Piperis_13:

(7, 5499), (8, 5580), (13, 5706), (14, 5727), (Start: 16 @5763 has 19 MA's), (17, 5787), (21, 5877), (23, 5919), (28, 6048), (29, 6102), (30, 6108),

Gene: Pulchra_14 Start: 5993, Stop: 6361, Start Num: 16

Candidate Starts for Pulchra_14:

(7, 5729), (8, 5810), (13, 5936), (14, 5957), (Start: 16 @5993 has 19 MA's), (17, 6017), (21, 6107), (22, 6122), (28, 6278), (29, 6332), (30, 6338),

Gene: Ramiel05_13 Start: 6048, Stop: 6398, Start Num: 15

Candidate Starts for Ramiel05_13:

(4, 5727), (5, 5730), (6, 5745), (9, 5943), (10, 5949), (11, 5973), (12, 5985), (Start: 15 @6048 has 8 MA's), (Start: 16 @6051 has 19 MA's), (18, 6087), (19, 6117), (20, 6129), (22, 6159), (24, 6207), (25, 6249), (26, 6267), (29, 6369), (31, 6387),

Gene: Savannah_13 Start: 6072, Stop: 6422, Start Num: 15

Candidate Starts for Savannah_13:

(4, 5751), (5, 5754), (6, 5769), (9, 5967), (10, 5973), (11, 5997), (12, 6009), (Start: 15 @6072 has 8 MA's), (Start: 16 @6075 has 19 MA's), (18, 6111), (19, 6141), (20, 6153), (22, 6183), (24, 6231), (25, 6273), (26, 6291), (29, 6393), (31, 6411),

Gene: Scumberland_14 Start: 5981, Stop: 6349, Start Num: 16

Candidate Starts for Scumberland_14:

(7, 5717), (8, 5798), (13, 5924), (14, 5945), (Start: 16 @5981 has 19 MA's), (17, 6005), (21, 6095), (23, 6137), (28, 6266), (29, 6320), (30, 6326),

Gene: Selwyn23_14 Start: 5993, Stop: 6361, Start Num: 16

Candidate Starts for Selwyn23_14:

(7, 5729), (8, 5810), (13, 5936), (14, 5957), (Start: 16 @5993 has 19 MA's), (17, 6017), (21, 6107), (23, 6149), (28, 6278), (29, 6332), (30, 6338),

Gene: Shotgun_12 Start: 5599, Stop: 5967, Start Num: 16

Candidate Starts for Shotgun_12:

(7, 5335), (8, 5416), (13, 5542), (14, 5563), (Start: 16 @5599 has 19 MA's), (17, 5623), (21, 5713), (22, 5728), (23, 5755), (28, 5884), (29, 5938), (30, 5944),

Gene: Yeti_13 Start: 5763, Stop: 6131, Start Num: 16

Candidate Starts for Yeti_13:

(7, 5499), (8, 5580), (13, 5706), (14, 5727), (Start: 16 @5763 has 19 MA's), (17, 5787), (21, 5877), (23, 5919), (28, 6048), (29, 6102), (30, 6108),