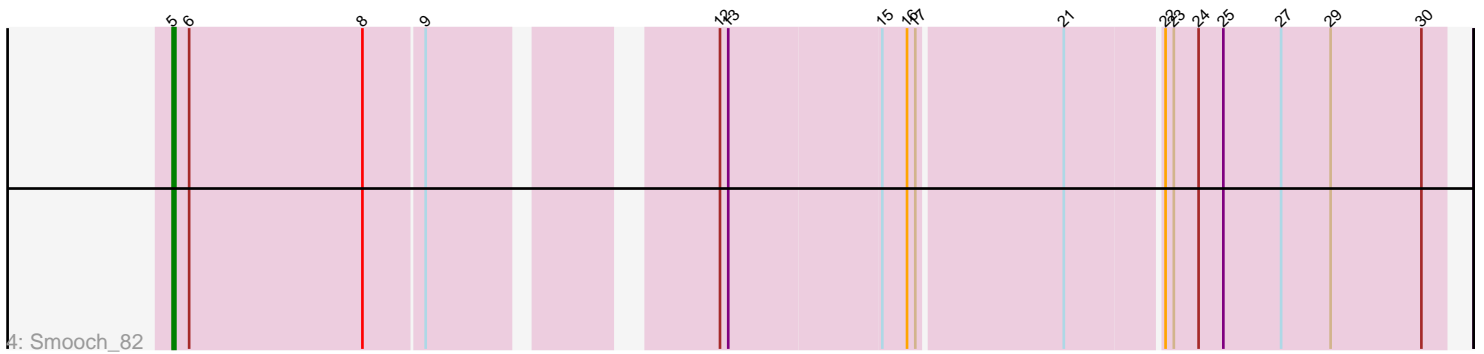
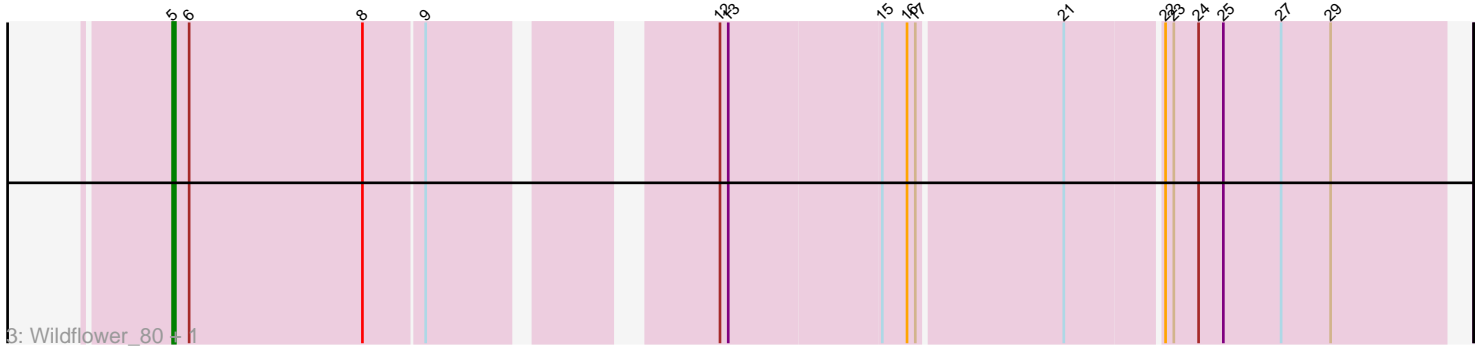
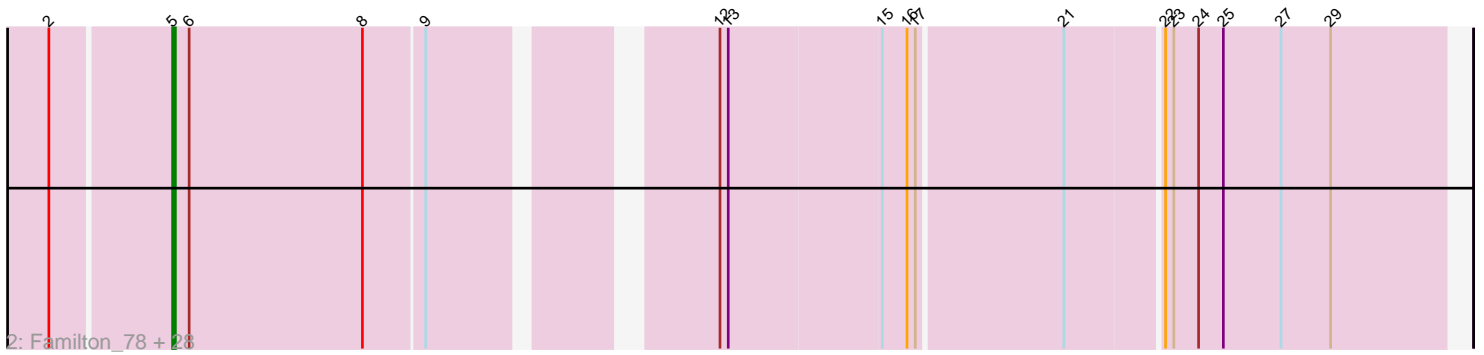
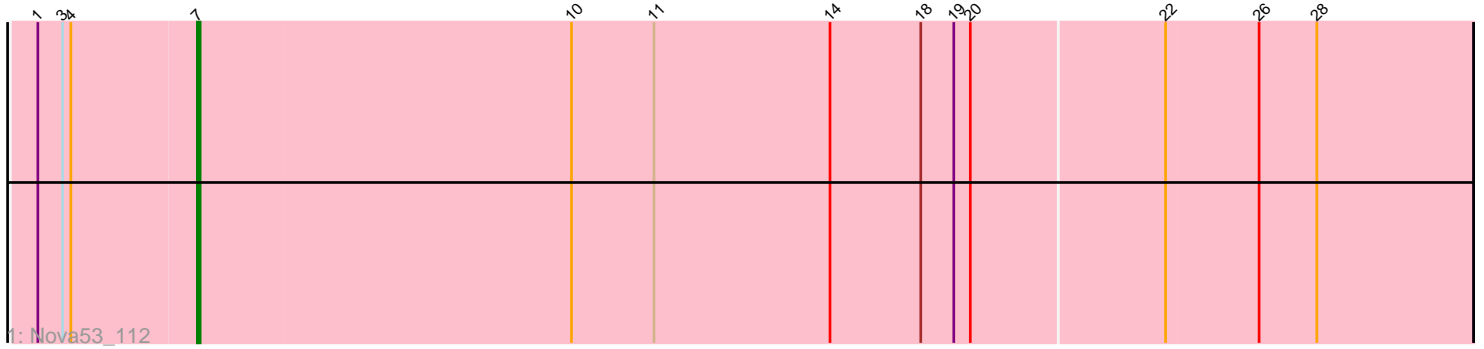


Pham 301601



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 301601 Report

This analysis was run 06/08/26 on database version 649.

Pham number 301601 has 33 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Nova53_112
- Track 2 : Familton_78, Dylan_80, Bora_75, Schuy_79, Catdawg_77, KingPhillip3_76, Krili_77, Murai_78, Firecracker_81, Wogge42_77, YoyoKar_75, Vorrps_78, NiebruSaylor_77, Blessica_78, JangDynasty_77, Imara_76, TelAviv_74, Mori_78, Ryadel_81, MadKillah_79, Zakhe101_79, Alkhayr_78, FoulBall_78, Idergollasper_77, Vagabond_78, SchoolBus_77, Winget_78, Zebo_77, Shida_77
- Track 3 : Wildflower_80, Ashwin_81
- Track 4 : Smooch_82

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 28 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alkhayr_78, Ashwin_81, Blessica_78, Bora_75, Catdawg_77, Dylan_80, Familton_78, Firecracker_81, FoulBall_78, Idergollasper_77, Imara_76, JangDynasty_77, KingPhillip3_76, Krili_77, MadKillah_79, Mori_78, Murai_78, NiebruSaylor_77, Ryadel_81, SchoolBus_77, Schuy_79, Shida_77, Smooch_82, TelAviv_74, Vagabond_78, Vorrps_78, Wildflower_80, Winget_78, Wogge42_77, YoyoKar_75, Zakhe101_79, Zebo_77,

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

-

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

- Nova53_112,

Summary by start number:

Start 5:

- Found in 32 of 33 (97.0%) of genes in pham
- Manual Annotations of this start: 28 of 29
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Alkhayr_78 (O), Ashwin_81 (O), Blessica_78 (O), Bora_75 (O), Catdawg_77 (O), Dylan_80 (O), Familton_78 (O), Firecracker_81 (O), FoulBall_78 (O), Idergollasper_77 (O), Imara_76 (O), JangDynasty_77 (O), KingPhillip3_76 (O), Krili_77 (O), MadKillah_79 (O), Mori_78 (O), Murai_78 (O), NiebruSaylor_77 (O), Ryadel_81 (O), SchoolBus_77 (O), Schuy_79 (O), Shida_77 (O), Smooch_82 (O), TelAviv_74 (O), Vagabond_78 (O), Vorrrps_78 (O), Wildflower_80 (O), Winget_78 (O), Wogge42_77 (O), YoyoKar_75 (O), Zakhe101_79 (O), Zebo_77 (O),

Start 7:

- Found in 1 of 33 (3.0%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nova53_112 (CG),

Summary by clusters:

There are 2 clusters represented in this pham: CG, O,

Info for manual annotations of cluster CG:

- Start number 7 was manually annotated 1 time for cluster CG.

Info for manual annotations of cluster O:

- Start number 5 was manually annotated 28 times for cluster O.

Gene Information:

Gene: Alkhayr_78 Start: 48258, Stop: 47827, Start Num: 5

Candidate Starts for Alkhayr_78:

(2, 48300), (Start: 5 @48258 has 28 MA's), (6, 48252), (8, 48189), (9, 48168), (12, 48081), (13, 48078), (15, 48024), (16, 48015), (17, 48012), (21, 47961), (22, 47928), (23, 47925), (24, 47916), (25, 47907), (27, 47886), (29, 47868),

Gene: Ashwin_81 Start: 50017, Stop: 49586, Start Num: 5

Candidate Starts for Ashwin_81:

(Start: 5 @50017 has 28 MA's), (6, 50011), (8, 49948), (9, 49927), (12, 49840), (13, 49837), (15, 49783), (16, 49774), (17, 49771), (21, 49720), (22, 49687), (23, 49684), (24, 49675), (25, 49666), (27, 49645), (29, 49627),

Gene: Blessica_78 Start: 48808, Stop: 48377, Start Num: 5

Candidate Starts for Blessica_78:

(2, 48850), (Start: 5 @48808 has 28 MA's), (6, 48802), (8, 48739), (9, 48718), (12, 48631), (13, 48628), (15, 48574), (16, 48565), (17, 48562), (21, 48511), (22, 48478), (23, 48475), (24, 48466), (25, 48457), (27, 48436), (29, 48418),

Gene: Bora_75 Start: 48189, Stop: 47758, Start Num: 5

Candidate Starts for Bora_75:

(2, 48231), (Start: 5 @48189 has 28 MA's), (6, 48183), (8, 48120), (9, 48099), (12, 48012), (13, 48009), (15, 47955), (16, 47946), (17, 47943), (21, 47892), (22, 47859), (23, 47856), (24, 47847), (25, 47838), (27, 47817), (29, 47799),

Gene: Catdawg_77 Start: 48544, Stop: 48113, Start Num: 5

Candidate Starts for Catdawg_77:

(2, 48586), (Start: 5 @48544 has 28 MA's), (6, 48538), (8, 48475), (9, 48454), (12, 48367), (13, 48364), (15, 48310), (16, 48301), (17, 48298), (21, 48247), (22, 48214), (23, 48211), (24, 48202), (25, 48193), (27, 48172), (29, 48154),

Gene: Dylan_80 Start: 49733, Stop: 49302, Start Num: 5

Candidate Starts for Dylan_80:

(2, 49775), (Start: 5 @49733 has 28 MA's), (6, 49727), (8, 49664), (9, 49643), (12, 49556), (13, 49553), (15, 49499), (16, 49490), (17, 49487), (21, 49436), (22, 49403), (23, 49400), (24, 49391), (25, 49382), (27, 49361), (29, 49343),

Gene: Familton_78 Start: 48501, Stop: 48070, Start Num: 5

Candidate Starts for Familton_78:

(2, 48543), (Start: 5 @48501 has 28 MA's), (6, 48495), (8, 48432), (9, 48411), (12, 48324), (13, 48321), (15, 48267), (16, 48258), (17, 48255), (21, 48204), (22, 48171), (23, 48168), (24, 48159), (25, 48150), (27, 48129), (29, 48111),

Gene: Firecracker_81 Start: 49891, Stop: 49460, Start Num: 5

Candidate Starts for Firecracker_81:

(2, 49933), (Start: 5 @49891 has 28 MA's), (6, 49885), (8, 49822), (9, 49801), (12, 49714), (13, 49711), (15, 49657), (16, 49648), (17, 49645), (21, 49594), (22, 49561), (23, 49558), (24, 49549), (25, 49540), (27, 49519), (29, 49501),

Gene: FoulBall_78 Start: 48541, Stop: 48110, Start Num: 5

Candidate Starts for FoulBall_78:

(2, 48583), (Start: 5 @48541 has 28 MA's), (6, 48535), (8, 48472), (9, 48451), (12, 48364), (13, 48361), (15, 48307), (16, 48298), (17, 48295), (21, 48244), (22, 48211), (23, 48208), (24, 48199), (25, 48190), (27, 48169), (29, 48151),

Gene: Idergollasper_77 Start: 48495, Stop: 48064, Start Num: 5

Candidate Starts for Idergollasper_77:

(2, 48537), (Start: 5 @48495 has 28 MA's), (6, 48489), (8, 48426), (9, 48405), (12, 48318), (13, 48315), (15, 48261), (16, 48252), (17, 48249), (21, 48198), (22, 48165), (23, 48162), (24, 48153), (25, 48144), (27, 48123), (29, 48105),

Gene: Imara_76 Start: 48344, Stop: 47913, Start Num: 5

Candidate Starts for Imara_76:

(2, 48386), (Start: 5 @48344 has 28 MA's), (6, 48338), (8, 48275), (9, 48254), (12, 48167), (13, 48164), (15, 48110), (16, 48101), (17, 48098), (21, 48047), (22, 48014), (23, 48011), (24, 48002), (25, 47993), (27, 47972), (29, 47954),

Gene: JangDynasty_77 Start: 48562, Stop: 48131, Start Num: 5

Candidate Starts for JangDynasty_77:

(2, 48604), (Start: 5 @48562 has 28 MA's), (6, 48556), (8, 48493), (9, 48472), (12, 48385), (13, 48382), (15, 48328), (16, 48319), (17, 48316), (21, 48265), (22, 48232), (23, 48229), (24, 48220), (25, 48211), (27, 48190), (29, 48172),

Gene: KingPhillip3_76 Start: 48510, Stop: 48079, Start Num: 5

Candidate Starts for KingPhillip3_76:

(2, 48552), (Start: 5 @48510 has 28 MA's), (6, 48504), (8, 48441), (9, 48420), (12, 48333), (13, 48330), (15, 48276), (16, 48267), (17, 48264), (21, 48213), (22, 48180), (23, 48177), (24, 48168), (25, 48159), (27, 48138), (29, 48120),

Gene: Krili_77 Start: 48054, Stop: 47623, Start Num: 5

Candidate Starts for Krili_77:

(2, 48096), (Start: 5 @48054 has 28 MA's), (6, 48048), (8, 47985), (9, 47964), (12, 47877), (13, 47874), (15, 47820), (16, 47811), (17, 47808), (21, 47757), (22, 47724), (23, 47721), (24, 47712), (25, 47703), (27, 47682), (29, 47664),

Gene: MadKillah_79 Start: 48323, Stop: 47892, Start Num: 5

Candidate Starts for MadKillah_79:

(2, 48365), (Start: 5 @48323 has 28 MA's), (6, 48317), (8, 48254), (9, 48233), (12, 48146), (13, 48143), (15, 48089), (16, 48080), (17, 48077), (21, 48026), (22, 47993), (23, 47990), (24, 47981), (25, 47972), (27, 47951), (29, 47933),

Gene: Mori_78 Start: 48582, Stop: 48151, Start Num: 5

Candidate Starts for Mori_78:

(2, 48624), (Start: 5 @48582 has 28 MA's), (6, 48576), (8, 48513), (9, 48492), (12, 48405), (13, 48402), (15, 48348), (16, 48339), (17, 48336), (21, 48285), (22, 48252), (23, 48249), (24, 48240), (25, 48231), (27, 48210), (29, 48192),

Gene: Murai_78 Start: 48717, Stop: 48286, Start Num: 5

Candidate Starts for Murai_78:

(2, 48759), (Start: 5 @48717 has 28 MA's), (6, 48711), (8, 48648), (9, 48627), (12, 48540), (13, 48537), (15, 48483), (16, 48474), (17, 48471), (21, 48420), (22, 48387), (23, 48384), (24, 48375), (25, 48366), (27, 48345), (29, 48327),

Gene: NiebruSaylor_77 Start: 47973, Stop: 47542, Start Num: 5

Candidate Starts for NiebruSaylor_77:

(2, 48015), (Start: 5 @47973 has 28 MA's), (6, 47967), (8, 47904), (9, 47883), (12, 47796), (13, 47793), (15, 47739), (16, 47730), (17, 47727), (21, 47676), (22, 47643), (23, 47640), (24, 47631), (25, 47622), (27, 47601), (29, 47583),

Gene: Nova53_112 Start: 76750, Stop: 77208, Start Num: 7

Candidate Starts for Nova53_112:

(1, 76693), (3, 76702), (4, 76705), (Start: 7 @76750 has 1 MA's), (10, 76885), (11, 76915), (14, 76978), (18, 77011), (19, 77023), (20, 77029), (22, 77098), (26, 77131), (28, 77152),

Gene: Ryadel_81 Start: 49329, Stop: 48898, Start Num: 5

Candidate Starts for Ryadel_81:

(2, 49371), (Start: 5 @49329 has 28 MA's), (6, 49323), (8, 49260), (9, 49239), (12, 49152), (13, 49149), (15, 49095), (16, 49086), (17, 49083), (21, 49032), (22, 48999), (23, 48996), (24, 48987), (25, 48978), (27, 48957), (29, 48939),

Gene: SchoolBus_77 Start: 48477, Stop: 48046, Start Num: 5

Candidate Starts for SchoolBus_77:

(2, 48519), (Start: 5 @48477 has 28 MA's), (6, 48471), (8, 48408), (9, 48387), (12, 48300), (13, 48297), (15, 48243), (16, 48234), (17, 48231), (21, 48180), (22, 48147), (23, 48144), (24, 48135), (25, 48126), (27, 48105), (29, 48087),

Gene: Schuy_79 Start: 48326, Stop: 47895, Start Num: 5

Candidate Starts for Schuy_79:

(2, 48368), (Start: 5 @48326 has 28 MA's), (6, 48320), (8, 48257), (9, 48236), (12, 48149), (13, 48146), (15, 48092), (16, 48083), (17, 48080), (21, 48029), (22, 47996), (23, 47993), (24, 47984), (25, 47975), (27, 47954), (29, 47936),

Gene: Shida_77 Start: 48168, Stop: 47737, Start Num: 5

Candidate Starts for Shida_77:

(2, 48210), (Start: 5 @48168 has 28 MA's), (6, 48162), (8, 48099), (9, 48078), (12, 47991), (13, 47988), (15, 47934), (16, 47925), (17, 47922), (21, 47871), (22, 47838), (23, 47835), (24, 47826), (25, 47817), (27, 47796), (29, 47778),

Gene: Smooch_82 Start: 51232, Stop: 50801, Start Num: 5

Candidate Starts for Smooch_82:

(Start: 5 @51232 has 28 MA's), (6, 51226), (8, 51163), (9, 51142), (12, 51055), (13, 51052), (15, 50998), (16, 50989), (17, 50986), (21, 50935), (22, 50902), (23, 50899), (24, 50890), (25, 50881), (27, 50860), (29, 50842), (30, 50809),

Gene: TelAviv_74 Start: 48462, Stop: 48031, Start Num: 5

Candidate Starts for TelAviv_74:

(2, 48504), (Start: 5 @48462 has 28 MA's), (6, 48456), (8, 48393), (9, 48372), (12, 48285), (13, 48282), (15, 48228), (16, 48219), (17, 48216), (21, 48165), (22, 48132), (23, 48129), (24, 48120), (25, 48111), (27, 48090), (29, 48072),

Gene: Vagabond_78 Start: 48374, Stop: 47943, Start Num: 5

Candidate Starts for Vagabond_78:

(2, 48416), (Start: 5 @48374 has 28 MA's), (6, 48368), (8, 48305), (9, 48284), (12, 48197), (13, 48194), (15, 48140), (16, 48131), (17, 48128), (21, 48077), (22, 48044), (23, 48041), (24, 48032), (25, 48023), (27, 48002), (29, 47984),

Gene: Vorrps_78 Start: 48583, Stop: 48152, Start Num: 5

Candidate Starts for Vorrps_78:

(2, 48625), (Start: 5 @48583 has 28 MA's), (6, 48577), (8, 48514), (9, 48493), (12, 48406), (13, 48403), (15, 48349), (16, 48340), (17, 48337), (21, 48286), (22, 48253), (23, 48250), (24, 48241), (25, 48232), (27, 48211), (29, 48193),

Gene: Wildflower_80 Start: 49323, Stop: 48892, Start Num: 5

Candidate Starts for Wildflower_80:

(Start: 5 @49323 has 28 MA's), (6, 49317), (8, 49254), (9, 49233), (12, 49146), (13, 49143), (15, 49089), (16, 49080), (17, 49077), (21, 49026), (22, 48993), (23, 48990), (24, 48981), (25, 48972), (27, 48951), (29, 48933),

Gene: Winget_78 Start: 48755, Stop: 48324, Start Num: 5

Candidate Starts for Winget_78:

(2, 48797), (Start: 5 @48755 has 28 MA's), (6, 48749), (8, 48686), (9, 48665), (12, 48578), (13, 48575), (15, 48521), (16, 48512), (17, 48509), (21, 48458), (22, 48425), (23, 48422), (24, 48413), (25, 48404), (27, 48383), (29, 48365),

Gene: Wogge42_77 Start: 48245, Stop: 47814, Start Num: 5

Candidate Starts for Wogge42_77:

(2, 48287), (Start: 5 @48245 has 28 MA's), (6, 48239), (8, 48176), (9, 48155), (12, 48068), (13, 48065), (15, 48011), (16, 48002), (17, 47999), (21, 47948), (22, 47915), (23, 47912), (24, 47903), (25, 47894), (27, 47873), (29, 47855),

Gene: YoyoKar_75 Start: 48039, Stop: 47608, Start Num: 5

Candidate Starts for YoyoKar_75:

(2, 48081), (Start: 5 @48039 has 28 MA's), (6, 48033), (8, 47970), (9, 47949), (12, 47862), (13, 47859), (15, 47805), (16, 47796), (17, 47793), (21, 47742), (22, 47709), (23, 47706), (24, 47697), (25, 47688),

(27, 47667), (29, 47649),

Gene: Zakhe101_79 Start: 49737, Stop: 49306, Start Num: 5

Candidate Starts for Zakhe101_79:

(2, 49779), (Start: 5 @49737 has 28 MA's), (6, 49731), (8, 49668), (9, 49647), (12, 49560), (13, 49557), (15, 49503), (16, 49494), (17, 49491), (21, 49440), (22, 49407), (23, 49404), (24, 49395), (25, 49386), (27, 49365), (29, 49347),

Gene: Zebo_77 Start: 48486, Stop: 48055, Start Num: 5

Candidate Starts for Zebo_77:

(2, 48528), (Start: 5 @48486 has 28 MA's), (6, 48480), (8, 48417), (9, 48396), (12, 48309), (13, 48306), (15, 48252), (16, 48243), (17, 48240), (21, 48189), (22, 48156), (23, 48153), (24, 48144), (25, 48135), (27, 48114), (29, 48096),