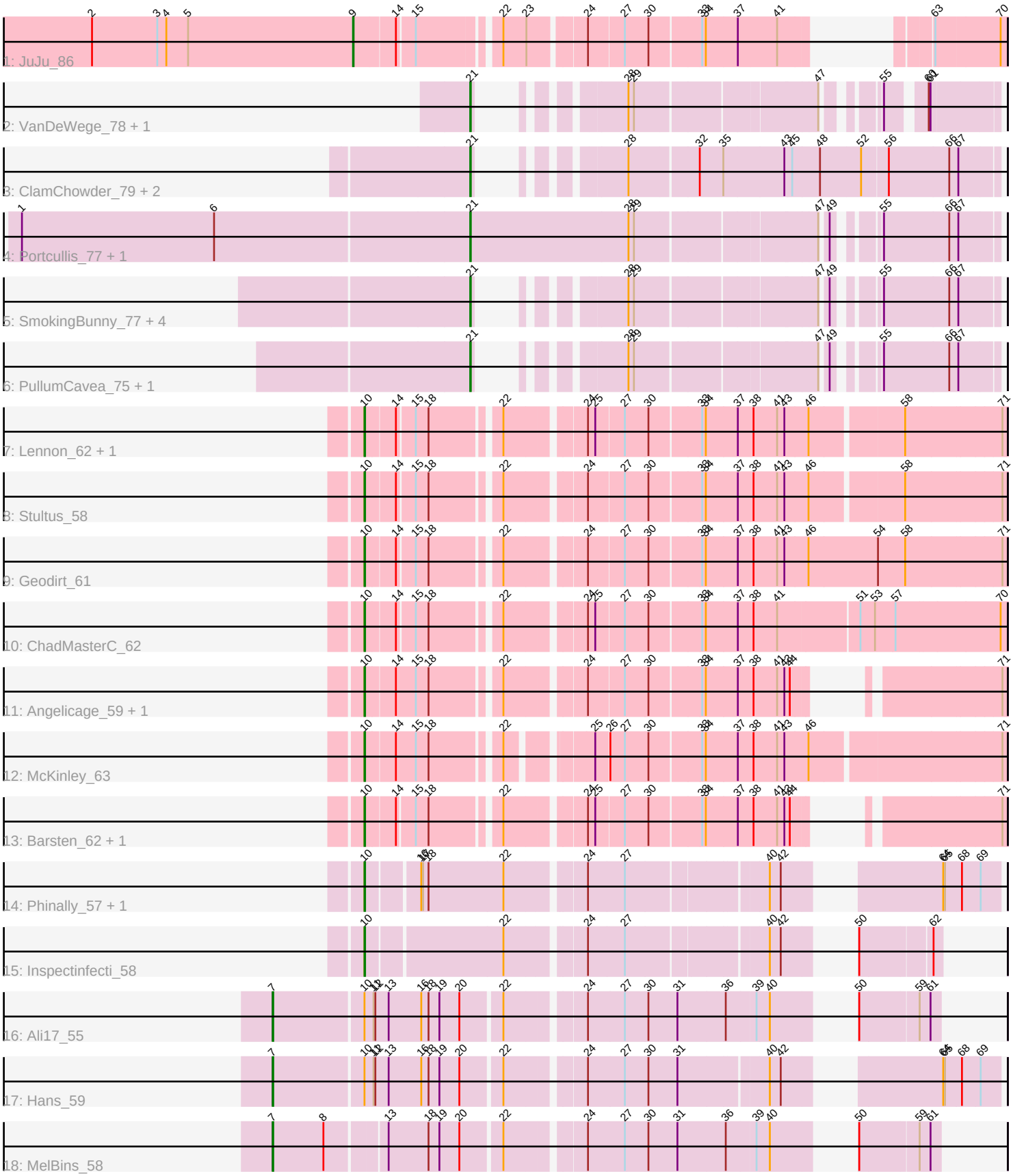
Pham 347899


1: JuJu_86
2: VanDeWege_78 + 1
3: ClamChowder_79 + 2
4: Portcullis_77 + 1
5: SmokingBunny_77 + 4
6: PullumCavea_75 + 1
7: Lennon_62 + 1
8: Stultus_58
9: Geodirt_61
10: ChadMasterC_62
11: Angelicage_59 + 1
12: McKinley_63
13: Barsten_62 + 1
14: Phinally_57 + 1
15: Inspectinfecti_58
16: Ali17_55
17: Hans_59
18: MelBins_58

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 347899 Report

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

Pham number 347899 has 31 members, 1 are drafts.

Phages represented in each track:
• Track 1 : JuJu_86
• Track 2 : VanDeWege_78, Arri_77
• Track 3 : ClamChowder_79, Fugax_80, Barb_79
• Track 4 : Portcullis_77, JohnPork_78
• Track 5 : SmokingBunny_77, Salvador_76, Togo_76, Evamon_76, Twister6_77
• Track 6 : PullumCavea_75, Phlop_74
• Track 7 : Lennon_62, Sitar_62
• Track 8 : Stultus_58
• Track 9 : Geodirt_61
• Track 10 : ChadMasterC_62
• Track 11 : Angelicage_59, Affeca_59
• Track 12 : McKinley_63
• Track 13 : Barsten_62, RiverRaider_61
• Track 14 : Phinally_57, Leonard_57
• Track 15 : Inspectinfecti_58
• Track 16 : Ali17_55
• Track 17 : Hans_59
• Track 18 : MelBins_58

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

The start number called the most often in the published annotations is 21, it was called in 13 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arri_77, Barb_79, ClamChowder_79, Evamon_76, Fugax_80, JohnPork_78, Phlop_74, Portcullis_77, PullumCavea_75, Salvador_76, SmokingBunny_77, Togo_76, Twister6_77, VanDeWege_78,

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

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

• Affeca_59, Ali17_55, Angelicage_59, Barsten_62, ChadMasterC_62, Geodirt_61, Hans_59, Inspectinfecti_58, JuJu_86, Lennon_62, Leonard_57, McKinley_63, MelBins_58, Phinally_57, RiverRaider_61, Sitar_62, Stultus_58,

Summary by start number:

Start 7:
• Found in 3 of 31 (9.7%) of genes in pham
• Manual Annotations of this start: 3 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ali17_55 (DE2), Hans_59 (DE2), MelBins_58 (DE2),

Start 9:
• Found in 1 of 31 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JuJu_86 (CV),

Start 10:
• Found in 15 of 31 (48.4%) of genes in pham
• Manual Annotations of this start: 13 of 30
• Called 86.7% of time when present
• Phage (with cluster) where this start called: Affeca_59 (DE1), Angelicage_59 (DE1), Barsten_62 (DE1), ChadMasterC_62 (DE1), Geodirt_61 (DE1), Inspectinfecti_58 (DE2), Lennon_62 (DE1), Leonard_57 (DE2), McKinley_63 (DE1), Phinally_57 (DE2), RiverRaider_61 (DE1), Sitar_62 (DE1), Stultus_58 (DE1),

Start 21:
• Found in 14 of 31 (45.2%) of genes in pham
• Manual Annotations of this start: 13 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arri_77 (DC1), Barb_79 (DC1), ClamChowder_79 (DC1), Evamon_76 (DC1), Fugax_80 (DC1), JohnPork_78 (DC1), Phlop_74 (DC1), Portcullis_77 (DC1), PullumCavea_75 (DC1), Salvador_76 (DC1), SmokingBunny_77 (DC1), Togo_76 (DC1), Twister6_77 (DC1), VanDeWege_78 (DC1),

Summary by clusters:

There are 4 clusters represented in this pham: DE1, DE2, CV, DC1,

Info for manual annotations of cluster CV:
•Start number 9 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster DC1:
•Start number 21 was manually annotated 13 times for cluster DC1.

Info for manual annotations of cluster DE1:
•Start number 10 was manually annotated 10 times for cluster DE1.

Info for manual annotations of cluster DE2:
•Start number 7 was manually annotated 3 times for cluster DE2.

•Start number 10 was manually annotated 3 times for cluster DE2.

Gene Information:

Gene: Affeca_59 Start: 48685, Stop: 49548, Start Num: 10
Candidate Starts for Affeca_59:
(Start: 10 @48685 has 13 MA's), (14, 48730), (15, 48763), (18, 48784), (22, 48886), (24, 49000), (27, 49057), (30, 49093), (33, 49174), (34, 49180), (37, 49231), (38, 49255), (41, 49294), (43, 49306), (44, 49315), (71, 49540),

Gene: Ali17_55 Start: 45697, Stop: 46656, Start Num: 7
Candidate Starts for Ali17_55:
(Start: 7 @45697 has 3 MA's), (Start: 10 @45841 has 13 MA's), (11, 45856), (12, 45859), (13, 45880), (16, 45934), (18, 45946), (19, 45964), (20, 45997), (22, 46060), (24, 46174), (27, 46234), (30, 46270), (31, 46318), (36, 46396), (39, 46441), (40, 46462), (50, 46531), (59, 46624), (61, 46642),

Gene: Angelicage_59 Start: 48758, Stop: 49621, Start Num: 10
Candidate Starts for Angelicage_59:
(Start: 10 @48758 has 13 MA's), (14, 48803), (15, 48836), (18, 48857), (22, 48959), (24, 49073), (27, 49130), (30, 49166), (33, 49247), (34, 49253), (37, 49304), (38, 49328), (41, 49367), (43, 49379), (44, 49388), (71, 49613),

Gene: Arri_77 Start: 51472, Stop: 52107, Start Num: 21
Candidate Starts for Arri_77:
(Start: 21 @51472 has 13 MA's), (28, 51604), (29, 51613), (47, 51889), (55, 51949), (60, 52000), (61, 52003),

Gene: Barb_79 Start: 51582, Stop: 52301, Start Num: 21
Candidate Starts for Barb_79:
(Start: 21 @51582 has 13 MA's), (28, 51714), (32, 51822), (35, 51861), (43, 51960), (45, 51972), (48, 52017), (52, 52083), (56, 52125), (66, 52224), (67, 52239),

Gene: Barsten_62 Start: 48900, Stop: 49757, Start Num: 10
Candidate Starts for Barsten_62:
(Start: 10 @48900 has 13 MA's), (14, 48945), (15, 48972), (18, 48993), (22, 49095), (24, 49209), (25, 49221), (27, 49266), (30, 49302), (33, 49383), (34, 49389), (37, 49440), (38, 49464), (41, 49503), (43, 49515), (44, 49524), (71, 49749),

Gene: ChadMasterC_62 Start: 50308, Stop: 51270, Start Num: 10
Candidate Starts for ChadMasterC_62:
(Start: 10 @50308 has 13 MA's), (14, 50353), (15, 50380), (18, 50401), (22, 50503), (24, 50617), (25, 50629), (27, 50674), (30, 50710), (33, 50791), (34, 50797), (37, 50848), (38, 50872), (41, 50911), (51, 51037), (53, 51061), (57, 51091), (70, 51259),

Gene: ClamChowder_79 Start: 51582, Stop: 52301, Start Num: 21
Candidate Starts for ClamChowder_79:
(Start: 21 @51582 has 13 MA's), (28, 51714), (32, 51822), (35, 51861), (43, 51960), (45, 51972), (48, 52017), (52, 52083), (56, 52125), (66, 52224), (67, 52239),

Gene: Evamon_76 Start: 51207, Stop: 51866, Start Num: 21
Candidate Starts for Evamon_76:

(Start: 21 @51207 has 13 MA's), (28, 51339), (29, 51348), (47, 51624), (49, 51633), (55, 51684), (66, 51789), (67, 51804),

Gene: Fugax_80 Start: 51574, Stop: 52293, Start Num: 21
Candidate Starts for Fugax_80:
(Start: 21 @51574 has 13 MA's), (28, 51706), (32, 51814), (35, 51853), (43, 51952), (45, 51964), (48, 52009), (52, 52075), (56, 52117), (66, 52216), (67, 52231),

Gene: Geodirt_61 Start: 49352, Stop: 50326, Start Num: 10
Candidate Starts for Geodirt_61:
(Start: 10 @49352 has 13 MA's), (14, 49397), (15, 49424), (18, 49445), (22, 49547), (24, 49661), (27, 49718), (30, 49754), (33, 49835), (34, 49841), (37, 49892), (38, 49916), (41, 49955), (43, 49967), (46, 50006), (54, 50120), (58, 50165), (71, 50318),

Gene: Hans_59 Start: 46328, Stop: 47386, Start Num: 7
Candidate Starts for Hans_59:
(Start: 7 @46328 has 3 MA's), (Start: 10 @46472 has 13 MA's), (11, 46487), (12, 46490), (13, 46511), (16, 46565), (18, 46577), (19, 46595), (20, 46628), (22, 46691), (24, 46805), (27, 46865), (30, 46901), (31, 46949), (40, 47087), (42, 47105), (64, 47294), (65, 47297), (68, 47324), (69, 47354),

Gene: Inspectinfecti_58 Start: 46732, Stop: 47517, Start Num: 10
Candidate Starts for Inspectinfecti_58:
(Start: 10 @46732 has 13 MA's), (22, 46945), (24, 47056), (27, 47113), (40, 47323), (42, 47341), (50, 47392), (62, 47503),

Gene: JohnPork_78 Start: 51178, Stop: 51966, Start Num: 21
Candidate Starts for JohnPork_78:
(1, 50446), (6, 50764), (Start: 21 @51178 has 13 MA's), (28, 51439), (29, 51448), (47, 51724), (49, 51733), (55, 51784), (66, 51889), (67, 51904),

Gene: JuJu_86 Start: 52100, Stop: 52939, Start Num: 9
Candidate Starts for JuJu_86:
(2, 51668), (3, 51776), (4, 51791), (5, 51827), (Start: 9 @52100 has 1 MA's), (14, 52166), (15, 52193), (22, 52313), (23, 52349), (24, 52433), (27, 52490), (30, 52526), (33, 52607), (34, 52613), (37, 52664), (41, 52727), (63, 52826), (70, 52928),

Gene: Lennon_62 Start: 50070, Stop: 51029, Start Num: 10
Candidate Starts for Lennon_62:
(Start: 10 @50070 has 13 MA's), (14, 50115), (15, 50142), (18, 50163), (22, 50265), (24, 50379), (25, 50391), (27, 50436), (30, 50472), (33, 50553), (34, 50559), (37, 50610), (38, 50634), (41, 50673), (43, 50685), (46, 50724), (58, 50868), (71, 51021),

Gene: Leonard_57 Start: 46698, Stop: 47588, Start Num: 10
Candidate Starts for Leonard_57:
(Start: 10 @46698 has 13 MA's), (16, 46776), (17, 46779), (18, 46788), (22, 46911), (24, 47022), (27, 47079), (40, 47289), (42, 47307), (64, 47496), (65, 47499), (68, 47526), (69, 47556),

Gene: McKinley_63 Start: 48890, Stop: 49840, Start Num: 10
Candidate Starts for McKinley_63:
(Start: 10 @48890 has 13 MA's), (14, 48935), (15, 48968), (18, 48989), (22, 49091), (25, 49202), (26, 49223), (27, 49247), (30, 49283), (33, 49364), (34, 49370), (37, 49421), (38, 49445), (41, 49484), (43, 49496), (46, 49535), (71, 49832),

Gene: MelBins_58 Start: 46810, Stop: 47757, Start Num: 7
Candidate Starts for MelBins_58:
(Start: 7 @46810 has 3 MA's), (8, 46894), (13, 46984), (18, 47050), (19, 47068), (20, 47101), (22, 47164), (24, 47278), (27, 47335), (30, 47371), (31, 47419), (36, 47497), (39, 47542), (40, 47563), (50, 47632), (59, 47725), (61, 47743),

Gene: Phinally_57 Start: 46695, Stop: 47585, Start Num: 10
Candidate Starts for Phinally_57:
(Start: 10 @46695 has 13 MA's), (16, 46773), (17, 46776), (18, 46785), (22, 46908), (24, 47019), (27, 47076), (40, 47286), (42, 47304), (64, 47493), (65, 47496), (68, 47523), (69, 47553),

Gene: Phlop_74 Start: 51091, Stop: 51750, Start Num: 21
Candidate Starts for Phlop_74:
(Start: 21 @51091 has 13 MA's), (28, 51223), (29, 51232), (47, 51508), (49, 51517), (55, 51568), (66, 51673), (67, 51688),

Gene: Portcullis_77 Start: 51178, Stop: 51966, Start Num: 21
Candidate Starts for Portcullis_77:
(1, 50446), (6, 50764), (Start: 21 @51178 has 13 MA's), (28, 51439), (29, 51448), (47, 51724), (49, 51733), (55, 51784), (66, 51889), (67, 51904),

Gene: PullumCavea_75 Start: 51268, Stop: 51927, Start Num: 21
Candidate Starts for PullumCavea_75:
(Start: 21 @51268 has 13 MA's), (28, 51400), (29, 51409), (47, 51685), (49, 51694), (55, 51745), (66, 51850), (67, 51865),

Gene: RiverRaider_61 Start: 46742, Stop: 47599, Start Num: 10
Candidate Starts for RiverRaider_61:
(Start: 10 @46742 has 13 MA's), (14, 46787), (15, 46814), (18, 46835), (22, 46937), (24, 47051), (25, 47063), (27, 47108), (30, 47144), (33, 47225), (34, 47231), (37, 47282), (38, 47306), (41, 47345), (43, 47357), (44, 47366), (71, 47591),

Gene: Salvador_76 Start: 51205, Stop: 51864, Start Num: 21
Candidate Starts for Salvador_76:
(Start: 21 @51205 has 13 MA's), (28, 51337), (29, 51346), (47, 51622), (49, 51631), (55, 51682), (66, 51787), (67, 51802),

Gene: Sitar_62 Start: 49779, Stop: 50738, Start Num: 10
Candidate Starts for Sitar_62:
(Start: 10 @49779 has 13 MA's), (14, 49824), (15, 49851), (18, 49872), (22, 49974), (24, 50088), (25, 50100), (27, 50145), (30, 50181), (33, 50262), (34, 50268), (37, 50319), (38, 50343), (41, 50382), (43, 50394), (46, 50433), (58, 50577), (71, 50730),

Gene: SmokingBunny_77 Start: 52201, Stop: 52860, Start Num: 21
Candidate Starts for SmokingBunny_77:
(Start: 21 @52201 has 13 MA's), (28, 52333), (29, 52342), (47, 52618), (49, 52627), (55, 52678), (66, 52783), (67, 52798),

Gene: Stultus_58 Start: 48041, Stop: 49000, Start Num: 10
Candidate Starts for Stultus_58:
(Start: 10 @48041 has 13 MA's), (14, 48086), (15, 48113), (18, 48134), (22, 48236), (24, 48350), (27, 48407), (30, 48443), (33, 48524), (34, 48530), (37, 48581), (38, 48605), (41, 48644), (43, 48656), (46, 48695), (58, 48839), (71, 48992),

Gene: Togo_76 Start: 52201, Stop: 52860, Start Num: 21
Candidate Starts for Togo_76:
(Start: 21 @52201 has 13 MA's), (28, 52333), (29, 52342), (47, 52618), (49, 52627), (55, 52678), (66, 52783), (67, 52798),

Gene: Twister6_77 Start: 50550, Stop: 51209, Start Num: 21
Candidate Starts for Twister6_77:
(Start: 21 @50550 has 13 MA's), (28, 50682), (29, 50691), (47, 50967), (49, 50976), (55, 51027), (66, 51132), (67, 51147),

Gene: VanDeWege_78 Start: 51535, Stop: 52170, Start Num: 21
Candidate Starts for VanDeWege_78:
(Start: 21 @51535 has 13 MA's), (28, 51667), (29, 51676), (47, 51952), (55, 52012), (60, 52063), (61, 52066),