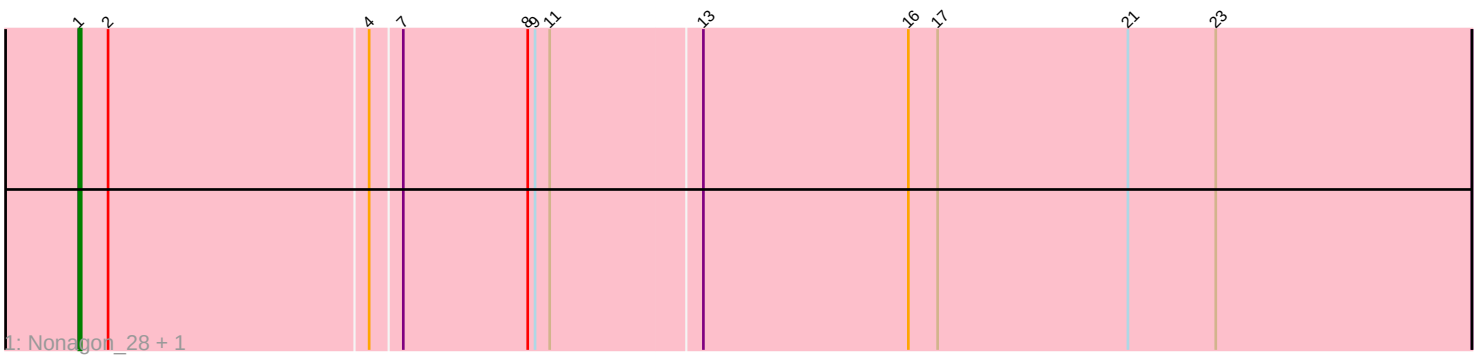
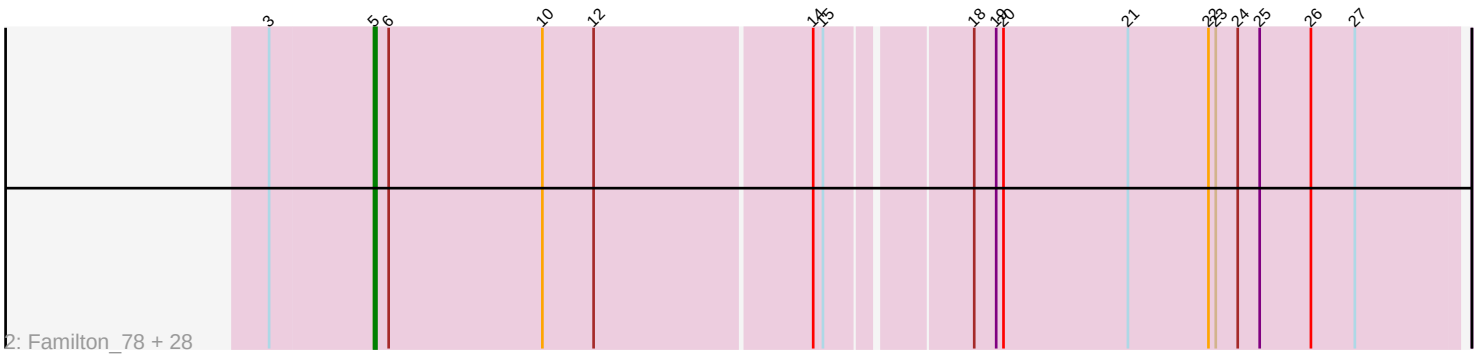
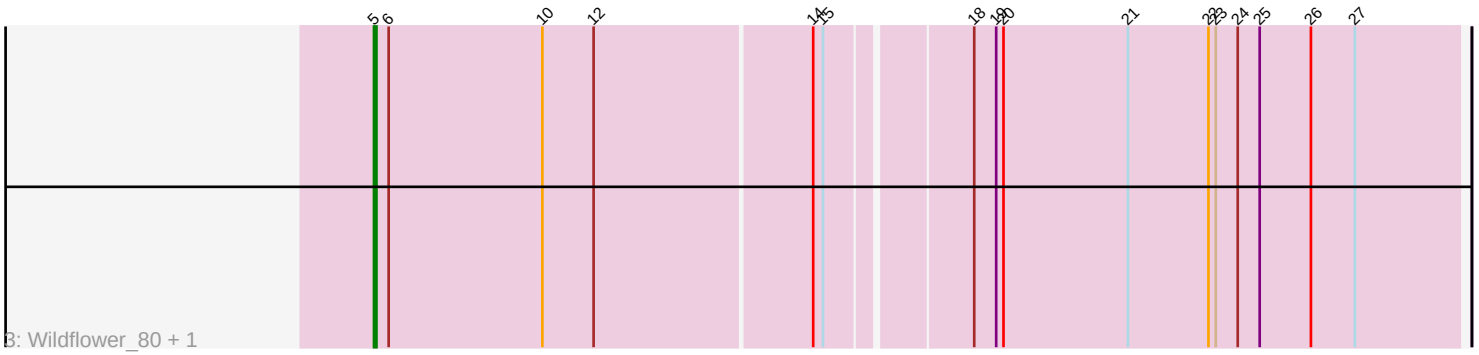
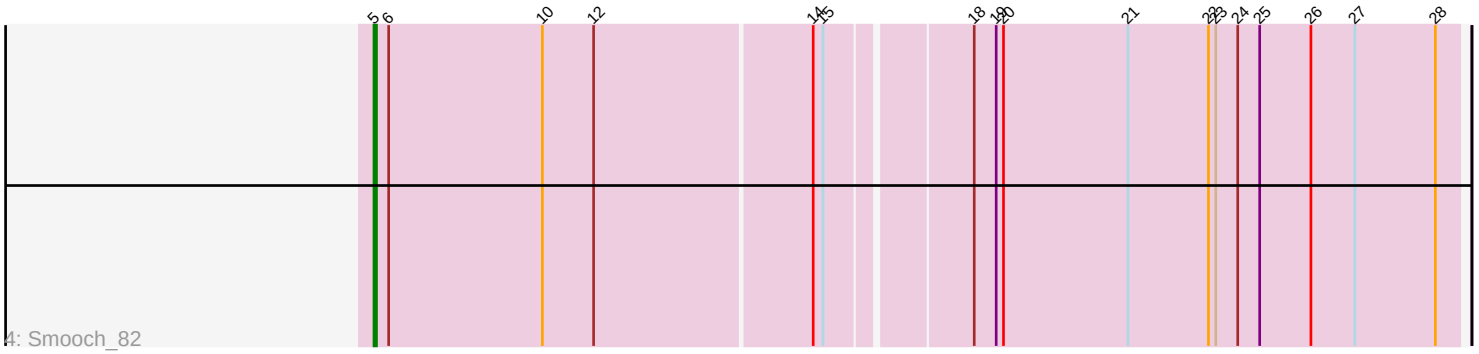
Pham 345965


1
2
4
7
8
9
11
13
16
17
21
23
1: Nonagon_28 + 1


3
5
6
10
12
14
15
18
19
20
21
22
23
24
25
26
27
2: Familton_78 + 28


5
6
10
12
14
15
18
19
20
21
22
23
24
25
26
27
3: Wildflower_80 + 1


5
6
10
12
14
15
18
19
20
21
22
23
24
25
26
27
28
4: Smooch_82

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 345965 Report

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

Pham number 345965 has 34 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Nonagon_28, Commonplace_28
• Track 2 : Familton_78, Dylan_80, Bora_75, Schuy_79, Catdawg_77, KingPhillip3_77, Krili_77, Murai_78, Firecracker_81, Wogge42_77, YoyoKar_75, Vorrps_78, NiebruSaylor_77, Blessica_78, JangDynasty_77, SchoolBus_77, Imara_78, TelAviv_74, Mori_78, Ryadel_81, MadKillah_79, Zakhe101_79, Alkhayr_78, FoulBall_78, Idergollasper_77, Vagabond_78, 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 30 of the 32 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_78, JangDynasty_77, KingPhillip3_77, 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:
• Commonplace_28, Nonagon_28,

Summary by start number:

Start 1:
• Found in 2 of 34 (5.9%) of genes in pham
• Manual Annotations of this start: 2 of 32

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Commonplace_28 (JD), Nonagon_28 (JD),

Start 5:
• Found in 32 of 34 (94.1%) of genes in pham
• Manual Annotations of this start: 30 of 32
• 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_78 (O), JangDynasty_77 (O), KingPhillip3_77 (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), Vorrps_78 (O), Wildflower_80 (O), Winget_78 (O), Wogge42_77 (O), YoyoKar_75 (O), Zakhe101_79 (O), Zebo_77 (O),

Summary by clusters:

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

Info for manual annotations of cluster JD:
•Start number 1 was manually annotated 2 times for cluster JD.

Info for manual annotations of cluster O:
•Start number 5 was manually annotated 30 times for cluster O.

Gene Information:

Gene: Alkhayr_78 Start: 48258, Stop: 47827, Start Num: 5
Candidate Starts for Alkhayr_78:
(3, 48300), (Start: 5 @48258 has 30 MA's), (6, 48252), (10, 48189), (12, 48168), (14, 48081), (15, 48078), (18, 48024), (19, 48015), (20, 48012), (21, 47961), (22, 47928), (23, 47925), (24, 47916), (25, 47907), (26, 47886), (27, 47868),

Gene: Ashwin_81 Start: 50017, Stop: 49586, Start Num: 5
Candidate Starts for Ashwin_81:
(Start: 5 @50017 has 30 MA's), (6, 50011), (10, 49948), (12, 49927), (14, 49840), (15, 49837), (18, 49783), (19, 49774), (20, 49771), (21, 49720), (22, 49687), (23, 49684), (24, 49675), (25, 49666), (26, 49645), (27, 49627),

Gene: Blessica_78 Start: 48808, Stop: 48377, Start Num: 5
Candidate Starts for Blessica_78:
(3, 48850), (Start: 5 @48808 has 30 MA's), (6, 48802), (10, 48739), (12, 48718), (14, 48631), (15, 48628), (18, 48574), (19, 48565), (20, 48562), (21, 48511), (22, 48478), (23, 48475), (24, 48466), (25, 48457), (26, 48436), (27, 48418),

Gene: Bora_75 Start: 48189, Stop: 47758, Start Num: 5
Candidate Starts for Bora_75:
(3, 48231), (Start: 5 @48189 has 30 MA's), (6, 48183), (10, 48120), (12, 48099), (14, 48012), (15, 48009), (18, 47955), (19, 47946), (20, 47943), (21, 47892), (22, 47859), (23, 47856), (24, 47847), (25,

47838), (26, 47817), (27, 47799),

Gene: Catdawg_77 Start: 48544, Stop: 48113, Start Num: 5
Candidate Starts for Catdawg_77:
(3, 48586), (Start: 5 @48544 has 30 MA's), (6, 48538), (10, 48475), (12, 48454), (14, 48367), (15, 48364), (18, 48310), (19, 48301), (20, 48298), (21, 48247), (22, 48214), (23, 48211), (24, 48202), (25, 48193), (26, 48172), (27, 48154),

Gene: Commonplace_28 Start: 11112, Stop: 11675, Start Num: 1
Candidate Starts for Commonplace_28:
(Start: 1 @11112 has 2 MA's), (2, 11124), (4, 11229), (7, 11241), (8, 11292), (9, 11295), (11, 11301), (13, 11361), (16, 11445), (17, 11457), (21, 11535), (23, 11571),

Gene: Dylan_80 Start: 49733, Stop: 49302, Start Num: 5
Candidate Starts for Dylan_80:
(3, 49775), (Start: 5 @49733 has 30 MA's), (6, 49727), (10, 49664), (12, 49643), (14, 49556), (15, 49553), (18, 49499), (19, 49490), (20, 49487), (21, 49436), (22, 49403), (23, 49400), (24, 49391), (25, 49382), (26, 49361), (27, 49343),

Gene: Familton_78 Start: 48501, Stop: 48070, Start Num: 5
Candidate Starts for Familton_78:
(3, 48543), (Start: 5 @48501 has 30 MA's), (6, 48495), (10, 48432), (12, 48411), (14, 48324), (15, 48321), (18, 48267), (19, 48258), (20, 48255), (21, 48204), (22, 48171), (23, 48168), (24, 48159), (25, 48150), (26, 48129), (27, 48111),

Gene: Firecracker_81 Start: 49891, Stop: 49460, Start Num: 5
Candidate Starts for Firecracker_81:
(3, 49933), (Start: 5 @49891 has 30 MA's), (6, 49885), (10, 49822), (12, 49801), (14, 49714), (15, 49711), (18, 49657), (19, 49648), (20, 49645), (21, 49594), (22, 49561), (23, 49558), (24, 49549), (25, 49540), (26, 49519), (27, 49501),

Gene: FoulBall_78 Start: 48541, Stop: 48110, Start Num: 5
Candidate Starts for FoulBall_78:
(3, 48583), (Start: 5 @48541 has 30 MA's), (6, 48535), (10, 48472), (12, 48451), (14, 48364), (15, 48361), (18, 48307), (19, 48298), (20, 48295), (21, 48244), (22, 48211), (23, 48208), (24, 48199), (25, 48190), (26, 48169), (27, 48151),

Gene: Idergollasper_77 Start: 48495, Stop: 48064, Start Num: 5
Candidate Starts for Idergollasper_77:
(3, 48537), (Start: 5 @48495 has 30 MA's), (6, 48489), (10, 48426), (12, 48405), (14, 48318), (15, 48315), (18, 48261), (19, 48252), (20, 48249), (21, 48198), (22, 48165), (23, 48162), (24, 48153), (25, 48144), (26, 48123), (27, 48105),

Gene: Imara_78 Start: 48344, Stop: 47913, Start Num: 5
Candidate Starts for Imara_78:
(3, 48386), (Start: 5 @48344 has 30 MA's), (6, 48338), (10, 48275), (12, 48254), (14, 48167), (15, 48164), (18, 48110), (19, 48101), (20, 48098), (21, 48047), (22, 48014), (23, 48011), (24, 48002), (25, 47993), (26, 47972), (27, 47954),

Gene: JangDynasty_77 Start: 48562, Stop: 48131, Start Num: 5
Candidate Starts for JangDynasty_77:
(3, 48604), (Start: 5 @48562 has 30 MA's), (6, 48556), (10, 48493), (12, 48472), (14, 48385), (15, 48382), (18, 48328), (19, 48319), (20, 48316), (21, 48265), (22, 48232), (23, 48229), (24, 48220), (25,

48211), (26, 48190), (27, 48172),

Gene: KingPhillip3_77 Start: 48510, Stop: 48079, Start Num: 5
Candidate Starts for KingPhillip3_77:
(3, 48552), (Start: 5 @48510 has 30 MA's), (6, 48504), (10, 48441), (12, 48420), (14, 48333), (15, 48330), (18, 48276), (19, 48267), (20, 48264), (21, 48213), (22, 48180), (23, 48177), (24, 48168), (25, 48159), (26, 48138), (27, 48120),

Gene: Krili_77 Start: 48054, Stop: 47623, Start Num: 5
Candidate Starts for Krili_77:
(3, 48096), (Start: 5 @48054 has 30 MA's), (6, 48048), (10, 47985), (12, 47964), (14, 47877), (15, 47874), (18, 47820), (19, 47811), (20, 47808), (21, 47757), (22, 47724), (23, 47721), (24, 47712), (25, 47703), (26, 47682), (27, 47664),

Gene: MadKillah_79 Start: 48323, Stop: 47892, Start Num: 5
Candidate Starts for MadKillah_79:
(3, 48365), (Start: 5 @48323 has 30 MA's), (6, 48317), (10, 48254), (12, 48233), (14, 48146), (15, 48143), (18, 48089), (19, 48080), (20, 48077), (21, 48026), (22, 47993), (23, 47990), (24, 47981), (25, 47972), (26, 47951), (27, 47933),

Gene: Mori_78 Start: 48582, Stop: 48151, Start Num: 5
Candidate Starts for Mori_78:
(3, 48624), (Start: 5 @48582 has 30 MA's), (6, 48576), (10, 48513), (12, 48492), (14, 48405), (15, 48402), (18, 48348), (19, 48339), (20, 48336), (21, 48285), (22, 48252), (23, 48249), (24, 48240), (25, 48231), (26, 48210), (27, 48192),

Gene: Murai_78 Start: 48717, Stop: 48286, Start Num: 5
Candidate Starts for Murai_78:
(3, 48759), (Start: 5 @48717 has 30 MA's), (6, 48711), (10, 48648), (12, 48627), (14, 48540), (15, 48537), (18, 48483), (19, 48474), (20, 48471), (21, 48420), (22, 48387), (23, 48384), (24, 48375), (25, 48366), (26, 48345), (27, 48327),

Gene: NiebruSaylor_77 Start: 47973, Stop: 47542, Start Num: 5
Candidate Starts for NiebruSaylor_77:
(3, 48015), (Start: 5 @47973 has 30 MA's), (6, 47967), (10, 47904), (12, 47883), (14, 47796), (15, 47793), (18, 47739), (19, 47730), (20, 47727), (21, 47676), (22, 47643), (23, 47640), (24, 47631), (25, 47622), (26, 47601), (27, 47583),

Gene: Nonagon_28 Start: 10938, Stop: 11501, Start Num: 1
Candidate Starts for Nonagon_28:
(Start: 1 @10938 has 2 MA's), (2, 10950), (4, 11055), (7, 11067), (8, 11118), (9, 11121), (11, 11127), (13, 11187), (16, 11271), (17, 11283), (21, 11361), (23, 11397),

Gene: Ryadel_81 Start: 49329, Stop: 48898, Start Num: 5
Candidate Starts for Ryadel_81:
(3, 49371), (Start: 5 @49329 has 30 MA's), (6, 49323), (10, 49260), (12, 49239), (14, 49152), (15, 49149), (18, 49095), (19, 49086), (20, 49083), (21, 49032), (22, 48999), (23, 48996), (24, 48987), (25, 48978), (26, 48957), (27, 48939),

Gene: SchoolBus_77 Start: 48477, Stop: 48046, Start Num: 5
Candidate Starts for SchoolBus_77:
(3, 48519), (Start: 5 @48477 has 30 MA's), (6, 48471), (10, 48408), (12, 48387), (14, 48300), (15, 48297), (18, 48243), (19, 48234), (20, 48231), (21, 48180), (22, 48147), (23, 48144), (24, 48135), (25,

48126), (26, 48105), (27, 48087),

Gene: Schuy_79 Start: 48326, Stop: 47895, Start Num: 5
Candidate Starts for Schuy_79:
(3, 48368), (Start: 5 @48326 has 30 MA's), (6, 48320), (10, 48257), (12, 48236), (14, 48149), (15, 48146), (18, 48092), (19, 48083), (20, 48080), (21, 48029), (22, 47996), (23, 47993), (24, 47984), (25, 47975), (26, 47954), (27, 47936),

Gene: Shida_77 Start: 48168, Stop: 47737, Start Num: 5
Candidate Starts for Shida_77:
(3, 48210), (Start: 5 @48168 has 30 MA's), (6, 48162), (10, 48099), (12, 48078), (14, 47991), (15, 47988), (18, 47934), (19, 47925), (20, 47922), (21, 47871), (22, 47838), (23, 47835), (24, 47826), (25, 47817), (26, 47796), (27, 47778),

Gene: Smooch_82 Start: 51232, Stop: 50801, Start Num: 5
Candidate Starts for Smooch_82:
(Start: 5 @51232 has 30 MA's), (6, 51226), (10, 51163), (12, 51142), (14, 51055), (15, 51052), (18, 50998), (19, 50989), (20, 50986), (21, 50935), (22, 50902), (23, 50899), (24, 50890), (25, 50881), (26, 50860), (27, 50842), (28, 50809),

Gene: TelAviv_74 Start: 48462, Stop: 48031, Start Num: 5
Candidate Starts for TelAviv_74:
(3, 48504), (Start: 5 @48462 has 30 MA's), (6, 48456), (10, 48393), (12, 48372), (14, 48285), (15, 48282), (18, 48228), (19, 48219), (20, 48216), (21, 48165), (22, 48132), (23, 48129), (24, 48120), (25, 48111), (26, 48090), (27, 48072),

Gene: Vagabond_78 Start: 48374, Stop: 47943, Start Num: 5
Candidate Starts for Vagabond_78:
(3, 48416), (Start: 5 @48374 has 30 MA's), (6, 48368), (10, 48305), (12, 48284), (14, 48197), (15, 48194), (18, 48140), (19, 48131), (20, 48128), (21, 48077), (22, 48044), (23, 48041), (24, 48032), (25, 48023), (26, 48002), (27, 47984),

Gene: Vorrps_78 Start: 48583, Stop: 48152, Start Num: 5
Candidate Starts for Vorrps_78:
(3, 48625), (Start: 5 @48583 has 30 MA's), (6, 48577), (10, 48514), (12, 48493), (14, 48406), (15, 48403), (18, 48349), (19, 48340), (20, 48337), (21, 48286), (22, 48253), (23, 48250), (24, 48241), (25, 48232), (26, 48211), (27, 48193),

Gene: Wildflower_80 Start: 49323, Stop: 48892, Start Num: 5
Candidate Starts for Wildflower_80:
(Start: 5 @49323 has 30 MA's), (6, 49317), (10, 49254), (12, 49233), (14, 49146), (15, 49143), (18, 49089), (19, 49080), (20, 49077), (21, 49026), (22, 48993), (23, 48990), (24, 48981), (25, 48972), (26, 48951), (27, 48933),

Gene: Winget_78 Start: 48755, Stop: 48324, Start Num: 5
Candidate Starts for Winget_78:
(3, 48797), (Start: 5 @48755 has 30 MA's), (6, 48749), (10, 48686), (12, 48665), (14, 48578), (15, 48575), (18, 48521), (19, 48512), (20, 48509), (21, 48458), (22, 48425), (23, 48422), (24, 48413), (25, 48404), (26, 48383), (27, 48365),

Gene: Wogge42_77 Start: 48245, Stop: 47814, Start Num: 5
Candidate Starts for Wogge42_77:

(3, 48287), (Start: 5 @48245 has 30 MA's), (6, 48239), (10, 48176), (12, 48155), (14, 48068), (15, 48065), (18, 48011), (19, 48002), (20, 47999), (21, 47948), (22, 47915), (23, 47912), (24, 47903), (25, 47894), (26, 47873), (27, 47855),

Gene: YoyoKar_75 Start: 48039, Stop: 47608, Start Num: 5
Candidate Starts for YoyoKar_75:
(3, 48081), (Start: 5 @48039 has 30 MA's), (6, 48033), (10, 47970), (12, 47949), (14, 47862), (15, 47859), (18, 47805), (19, 47796), (20, 47793), (21, 47742), (22, 47709), (23, 47706), (24, 47697), (25, 47688), (26, 47667), (27, 47649),

Gene: Zakhe101_79 Start: 49737, Stop: 49306, Start Num: 5
Candidate Starts for Zakhe101_79:
(3, 49779), (Start: 5 @49737 has 30 MA's), (6, 49731), (10, 49668), (12, 49647), (14, 49560), (15, 49557), (18, 49503), (19, 49494), (20, 49491), (21, 49440), (22, 49407), (23, 49404), (24, 49395), (25, 49386), (26, 49365), (27, 49347),

Gene: Zebo_77 Start: 48486, Stop: 48055, Start Num: 5
Candidate Starts for Zebo_77:
(3, 48528), (Start: 5 @48486 has 30 MA's), (6, 48480), (10, 48417), (12, 48396), (14, 48309), (15, 48306), (18, 48252), (19, 48243), (20, 48240), (21, 48189), (22, 48156), (23, 48153), (24, 48144), (25, 48135), (26, 48114), (27, 48096),