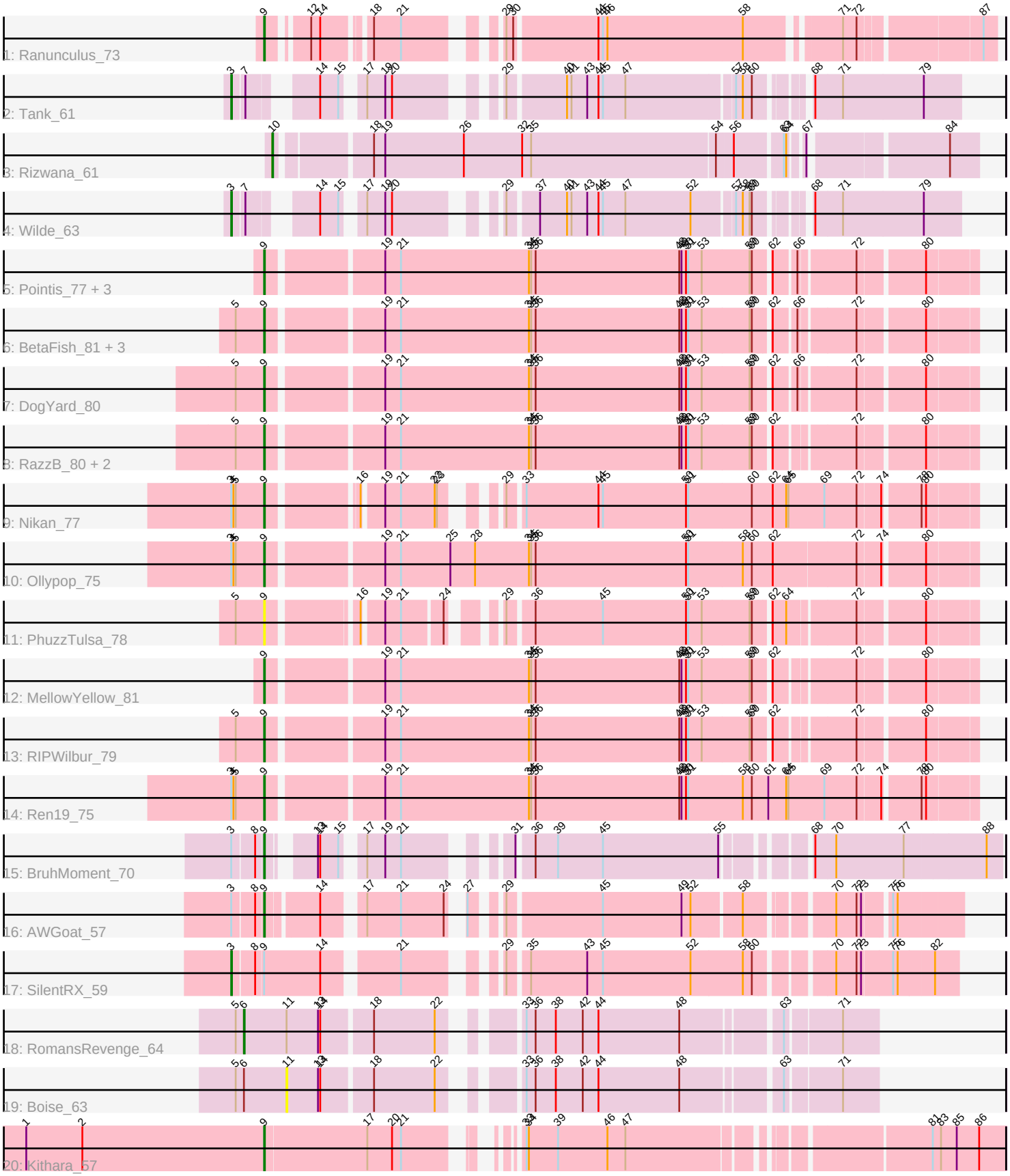
Pham 347932


1: Ranunculus_73
2: Tank_61
3: Rizwana_61
4: Wilde_63
5: Pointis_77 + 3
6: BetaFish_81 + 3
7: DogYard_80
8: RazzB_80 + 2
9: Nikan_77
10: Ollypop_75
11: PhuzzTulsa_78
12: MellowYellow_81
13: RIPWilbur_79
14: Ren19_75
15: BruhMoment_70
16: AWGoat_57
17: SilentRX_59
18: RomansRevenge_64
19: Boise_63
20: Kithara_57

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 347932 Report

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

Pham number 347932 has 28 members, 4 are drafts.

Phages represented in each track:
- Track 1 : Ranunculus_73
- Track 2 : Tank_61
- Track 3 : Rizwana_61
- Track 4 : Wilde_63
- Track 5 : Pointis_77, Pureglobe5_79, Hive_76, Kubulix_80
- Track 6 : BetaFish_81, Popstraw_76, Odyssey395_81, Beagle_81
- Track 7 : DogYard_80
- Track 8 : RazzB_80, Forrestell_80, NyleyClemson_79
- Track 9 : Nikan_77
- Track 10 : Ollypop_75
- Track 11 : PhuzzTulsa_78
- Track 12 : MellowYellow_81
- Track 13 : RIPWilbur_79
- Track 14 : Ren19_75
- Track 15 : BruhMoment_70
- Track 16 : AWGoat_57
- Track 17 : SilentRX_59
- Track 18 : RomansRevenge_64
- Track 19 : Boise_63
- Track 20 : Kithara_57

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

The start number called the most often in the published annotations is 9, it was called in 19 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- AWGoat_57, Beagle_81, BetaFish_81, BruhMoment_70, DogYard_80, Forrestell_80, Hive_76, Kithara_57, Kubulix_80, MellowYellow_81, Nikan_77, NyleyClemson_79, Odyssey395_81, Ollypop_75, PhuzzTulsa_78, Pointis_77, Popstraw_76, Pureglobe5_79, RIPWilbur_79, Ranunculus_73, RazzB_80, Ren19_75,

Genes that have the "Most Annotated" start but do not call it:
- SilentRX_59,

Genes that do not have the "Most Annotated" start:
• Boise_63, Rizwana_61, RomansRevenge_64, Tank_61, Wilde_63,

Summary by start number:

Start 3:
• Found in 8 of 28 (28.6%) of genes in pham
• Manual Annotations of this start: 3 of 24
• Called 37.5% of time when present
• Phage (with cluster) where this start called: SilentRX_59 (AP4), Tank_61 (AP1), Wilde_63 (AP1),

Start 6:
• Found in 2 of 28 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 50.0% of time when present
• Phage (with cluster) where this start called: RomansRevenge_64 (FT),

Start 9:
• Found in 23 of 28 (82.1%) of genes in pham
• Manual Annotations of this start: 19 of 24
• Called 95.7% of time when present
• Phage (with cluster) where this start called: AWGoat_57 (AP4), Beagle_81 (AP2), BetaFish_81 (AP2), BruhMoment_70 (AP3), DogYard_80 (AP2), Forrestell_80 (AP2), Hive_76 (AP2), Kithara_57 (singleton), Kubulix_80 (AP2), MellowYellow_81 (AP2), Nikan_77 (AP2), NyleyClemson_79 (AP2), Odyssey395_81 (AP2), Ollypop_75 (AP2), PhuzzTulsa_78 (AP2), Pointis_77 (AP2), Popstraw_76 (AP2), Pureglobe5_79 (AP2), RIPWilbur_79 (AP2), Ranunculus_73 (AP), RazzB_80 (AP2), Ren19_75 (AP2),

Start 10:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rizwana_61 (AP1),

Start 11:
• Found in 2 of 28 (7.1%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Boise_63 (FT),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, FT, AP2, AP3, AP1, AP4, AP,

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

Info for manual annotations of cluster AP1:
•Start number 3 was manually annotated 2 times for cluster AP1.
•Start number 10 was manually annotated 1 time for cluster AP1.

Info for manual annotations of cluster AP2:
•Start number 9 was manually annotated 15 times for cluster AP2.

Info for manual annotations of cluster AP3:
•Start number 9 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:
•Start number 3 was manually annotated 1 time for cluster AP4.
•Start number 9 was manually annotated 1 time for cluster AP4.

Info for manual annotations of cluster FT:
•Start number 6 was manually annotated 1 time for cluster FT.

Gene Information:

Gene: AWGoat_57 Start: 42937, Stop: 42152, Start Num: 9
Candidate Starts for AWGoat_57:
(Start: 3 @42973 has 3 MA's), (8, 42946), (Start: 9 @42937 has 19 MA's), (14, 42874), (17, 42832), (21, 42787), (24, 42730), (27, 42724), (29, 42697), (45, 42577), (49, 42472), (52, 42460), (58, 42400), (70, 42304), (72, 42277), (73, 42271), (75, 42241), (76, 42235),

Gene: Beagle_81 Start: 48714, Stop: 47827, Start Num: 9
Candidate Starts for Beagle_81:
(5, 48750), (Start: 9 @48714 has 19 MA's), (19, 48573), (21, 48552), (34, 48381), (35, 48378), (36, 48372), (48, 48180), (49, 48177), (50, 48171), (51, 48168), (53, 48150), (59, 48087), (60, 48084), (62, 48066), (66, 48039), (72, 47970), (80, 47889),

Gene: BetaFish_81 Start: 49443, Stop: 48556, Start Num: 9
Candidate Starts for BetaFish_81:
(5, 49479), (Start: 9 @49443 has 19 MA's), (19, 49302), (21, 49281), (34, 49110), (35, 49107), (36, 49101), (48, 48909), (49, 48906), (50, 48900), (51, 48897), (53, 48879), (59, 48816), (60, 48813), (62, 48795), (66, 48768), (72, 48699), (80, 48618),

Gene: Boise_63 Start: 45422, Stop: 44724, Start Num: 11
Candidate Starts for Boise_63:
(5, 45488), (Start: 6 @45479 has 1 MA's), (11, 45422), (13, 45380), (14, 45377), (18, 45314), (22, 45233), (33, 45164), (36, 45152), (38, 45125), (42, 45089), (44, 45068), (48, 44960), (63, 44840), (71, 44771),

Gene: BruhMoment_70 Start: 47914, Stop: 47087, Start Num: 9
Candidate Starts for BruhMoment_70:
(Start: 3 @47950 has 3 MA's), (8, 47923), (Start: 9 @47914 has 19 MA's), (13, 47869), (14, 47866), (15, 47842), (17, 47824), (19, 47800), (21, 47779), (31, 47677), (36, 47659), (39, 47629), (45, 47569), (55, 47416), (68, 47329), (70, 47302), (77, 47212), (88, 47107),

Gene: DogYard_80 Start: 48930, Stop: 48043, Start Num: 9
Candidate Starts for DogYard_80:
(5, 48966), (Start: 9 @48930 has 19 MA's), (19, 48789), (21, 48768), (34, 48597), (35, 48594), (36, 48588), (48, 48396), (49, 48393), (50, 48387), (51, 48384), (53, 48366), (59, 48303), (60, 48300), (62, 48282), (66, 48255), (72, 48186), (80, 48105),

Gene: Forrestell_80 Start: 48173, Stop: 47286, Start Num: 9
Candidate Starts for Forrestell_80:
(5, 48209), (Start: 9 @48173 has 19 MA's), (19, 48032), (21, 48011), (34, 47840), (35, 47837), (36, 47831), (48, 47639), (49, 47636), (50, 47630), (51, 47627), (53, 47609), (59, 47546), (60, 47543), (62, 47525), (72, 47429), (80, 47348),

Gene: Hive_76 Start: 48710, Stop: 47823, Start Num: 9
Candidate Starts for Hive_76:
(Start: 9 @48710 has 19 MA's), (19, 48569), (21, 48548), (34, 48377), (35, 48374), (36, 48368), (48, 48176), (49, 48173), (50, 48167), (51, 48164), (53, 48146), (59, 48083), (60, 48080), (62, 48062), (66, 48035), (72, 47966), (80, 47885),

Gene: Kithara_57 Start: 44025, Stop: 43174, Start Num: 9
Candidate Starts for Kithara_57:
(1, 44343), (2, 44268), (Start: 9 @44025 has 19 MA's), (17, 43890), (20, 43857), (21, 43845), (33, 43755), (34, 43752), (39, 43713), (46, 43647), (47, 43623), (81, 43269), (83, 43260), (85, 43239), (86, 43209),

Gene: Kubulix_80 Start: 48600, Stop: 47713, Start Num: 9
Candidate Starts for Kubulix_80:
(Start: 9 @48600 has 19 MA's), (19, 48459), (21, 48438), (34, 48267), (35, 48264), (36, 48258), (48, 48066), (49, 48063), (50, 48057), (51, 48054), (53, 48036), (59, 47973), (60, 47970), (62, 47952), (66, 47925), (72, 47856), (80, 47775),

Gene: MellowYellow_81 Start: 48842, Stop: 47955, Start Num: 9
Candidate Starts for MellowYellow_81:
(Start: 9 @48842 has 19 MA's), (19, 48701), (21, 48680), (34, 48509), (35, 48506), (36, 48500), (48, 48308), (49, 48305), (50, 48299), (51, 48296), (53, 48278), (59, 48215), (60, 48212), (62, 48194), (72, 48098), (80, 48017),

Gene: Nikan_77 Start: 48689, Stop: 47850, Start Num: 9
Candidate Starts for Nikan_77:
(Start: 3 @48731 has 3 MA's), (4, 48728), (5, 48725), (Start: 9 @48689 has 19 MA's), (16, 48584), (19, 48560), (21, 48539), (22, 48494), (23, 48491), (29, 48449), (33, 48431), (44, 48335), (45, 48329), (50, 48218), (51, 48215), (60, 48131), (62, 48104), (64, 48086), (65, 48083), (69, 48035), (72, 47993), (74, 47963), (78, 47918), (80, 47912),

Gene: NyleyClemson_79 Start: 48457, Stop: 47570, Start Num: 9
Candidate Starts for NyleyClemson_79:
(5, 48493), (Start: 9 @48457 has 19 MA's), (19, 48316), (21, 48295), (34, 48124), (35, 48121), (36, 48115), (48, 47923), (49, 47920), (50, 47914), (51, 47911), (53, 47893), (59, 47830), (60, 47827), (62, 47809), (72, 47713), (80, 47632),

Gene: Odyssey395_81 Start: 48951, Stop: 48064, Start Num: 9
Candidate Starts for Odyssey395_81:
(5, 48987), (Start: 9 @48951 has 19 MA's), (19, 48810), (21, 48789), (34, 48618), (35, 48615), (36, 48609), (48, 48417), (49, 48414), (50, 48408), (51, 48405), (53, 48387), (59, 48324), (60, 48321), (62, 48303), (66, 48276), (72, 48207), (80, 48126),

Gene: Ollypop_75 Start: 48994, Stop: 48086, Start Num: 9
Candidate Starts for Ollypop_75:

(Start: 3 @49036 has 3 MA's), (4, 49033), (5, 49030), (Start: 9 @48994 has 19 MA's), (19, 48853), (21, 48832), (25, 48766), (28, 48733), (34, 48661), (35, 48658), (36, 48652), (50, 48451), (51, 48448), (58, 48376), (60, 48364), (62, 48337), (72, 48229), (74, 48199), (80, 48148),

Gene: PhuzzTulsa_78 Start: 49079, Stop: 48258, Start Num: 9
Candidate Starts for PhuzzTulsa_78:
(5, 49115), (Start: 9 @49079 has 19 MA's), (16, 48974), (19, 48950), (21, 48929), (24, 48881), (29, 48839), (36, 48809), (45, 48719), (50, 48608), (51, 48605), (53, 48587), (59, 48524), (60, 48521), (62, 48503), (64, 48485), (72, 48401), (80, 48320),

Gene: Pointis_77 Start: 48527, Stop: 47640, Start Num: 9
Candidate Starts for Pointis_77:
(Start: 9 @48527 has 19 MA's), (19, 48386), (21, 48365), (34, 48194), (35, 48191), (36, 48185), (48, 47993), (49, 47990), (50, 47984), (51, 47981), (53, 47963), (59, 47900), (60, 47897), (62, 47879), (66, 47852), (72, 47783), (80, 47702),

Gene: Popstraw_76 Start: 48689, Stop: 47802, Start Num: 9
Candidate Starts for Popstraw_76:
(5, 48725), (Start: 9 @48689 has 19 MA's), (19, 48548), (21, 48527), (34, 48356), (35, 48353), (36, 48347), (48, 48155), (49, 48152), (50, 48146), (51, 48143), (53, 48125), (59, 48062), (60, 48059), (62, 48041), (66, 48014), (72, 47945), (80, 47864),

Gene: Pureglobe5_79 Start: 48971, Stop: 48084, Start Num: 9
Candidate Starts for Pureglobe5_79:
(Start: 9 @48971 has 19 MA's), (19, 48830), (21, 48809), (34, 48638), (35, 48635), (36, 48629), (48, 48437), (49, 48434), (50, 48428), (51, 48425), (53, 48407), (59, 48344), (60, 48341), (62, 48323), (66, 48296), (72, 48227), (80, 48146),

Gene: RIPWilbur_79 Start: 48491, Stop: 47604, Start Num: 9
Candidate Starts for RIPWilbur_79:
(5, 48527), (Start: 9 @48491 has 19 MA's), (19, 48350), (21, 48329), (34, 48158), (35, 48155), (36, 48149), (48, 47957), (49, 47954), (50, 47948), (51, 47945), (53, 47927), (59, 47864), (60, 47861), (62, 47843), (72, 47747), (80, 47666),

Gene: Ranunculus_73 Start: 51059, Stop: 50235, Start Num: 9
Candidate Starts for Ranunculus_73:
(Start: 9 @51059 has 19 MA's), (12, 51017), (14, 51005), (18, 50954), (21, 50918), (29, 50828), (30, 50819), (44, 50714), (45, 50708), (46, 50702), (58, 50522), (71, 50417), (72, 50399), (87, 50252),

Gene: RazzB_80 Start: 48583, Stop: 47696, Start Num: 9
Candidate Starts for RazzB_80:
(5, 48619), (Start: 9 @48583 has 19 MA's), (19, 48442), (21, 48421), (34, 48250), (35, 48247), (36, 48241), (48, 48049), (49, 48046), (50, 48040), (51, 48037), (53, 48019), (59, 47956), (60, 47953), (62, 47935), (72, 47839), (80, 47758),

Gene: Ren19_75 Start: 48354, Stop: 47446, Start Num: 9
Candidate Starts for Ren19_75:
(Start: 3 @48396 has 3 MA's), (4, 48393), (5, 48390), (Start: 9 @48354 has 19 MA's), (19, 48213), (21, 48192), (34, 48021), (35, 48018), (36, 48012), (48, 47820), (49, 47817), (50, 47811), (51, 47808), (58, 47736), (60, 47724), (61, 47706), (64, 47682), (65, 47679), (69, 47631), (72, 47589), (74, 47559), (78, 47514), (80, 47508),

Gene: Rizwana_61 Start: 45189, Stop: 44326, Start Num: 10

Candidate Starts for Rizwana_61:
(Start: 10 @45189 has 1 MA's), (18, 45078), (19, 45063), (26, 44958), (32, 44880), (35, 44868), (54, 44625), (56, 44604), (63, 44547), (64, 44544), (67, 44529), (84, 44364),

Gene: RomansRevenge_64 Start: 45479, Stop: 44724, Start Num: 6
Candidate Starts for RomansRevenge_64:
(5, 45488), (Start: 6 @45479 has 1 MA's), (11, 45422), (13, 45380), (14, 45377), (18, 45314), (22, 45233), (33, 45164), (36, 45152), (38, 45125), (42, 45089), (44, 45068), (48, 44960), (63, 44840), (71, 44771),

Gene: SilentRX_59 Start: 44240, Stop: 43395, Start Num: 3
Candidate Starts for SilentRX_59:
(Start: 3 @44240 has 3 MA's), (8, 44213), (Start: 9 @44204 has 19 MA's), (14, 44129), (21, 44042), (29, 43952), (35, 43928), (43, 43853), (45, 43832), (52, 43715), (58, 43646), (60, 43634), (70, 43547), (72, 43520), (73, 43514), (75, 43475), (76, 43469), (82, 43424),

Gene: Tank_61 Start: 45214, Stop: 44408, Start Num: 3
Candidate Starts for Tank_61:
(Start: 3 @45214 has 3 MA's), (7, 45199), (14, 45133), (15, 45109), (17, 45091), (19, 45067), (20, 45058), (29, 44956), (40, 44884), (41, 44878), (43, 44857), (44, 44842), (45, 44836), (47, 44806), (57, 44668), (58, 44659), (60, 44647), (68, 44596), (71, 44560), (79, 44455),

Gene: Wilde_63 Start: 45513, Stop: 44707, Start Num: 3
Candidate Starts for Wilde_63:
(Start: 3 @45513 has 3 MA's), (7, 45498), (14, 45432), (15, 45408), (17, 45390), (19, 45366), (20, 45357), (29, 45255), (37, 45219), (40, 45183), (41, 45177), (43, 45156), (44, 45141), (45, 45135), (47, 45105), (52, 45018), (57, 44967), (58, 44958), (59, 44949), (60, 44946), (68, 44895), (71, 44859), (79, 44754),