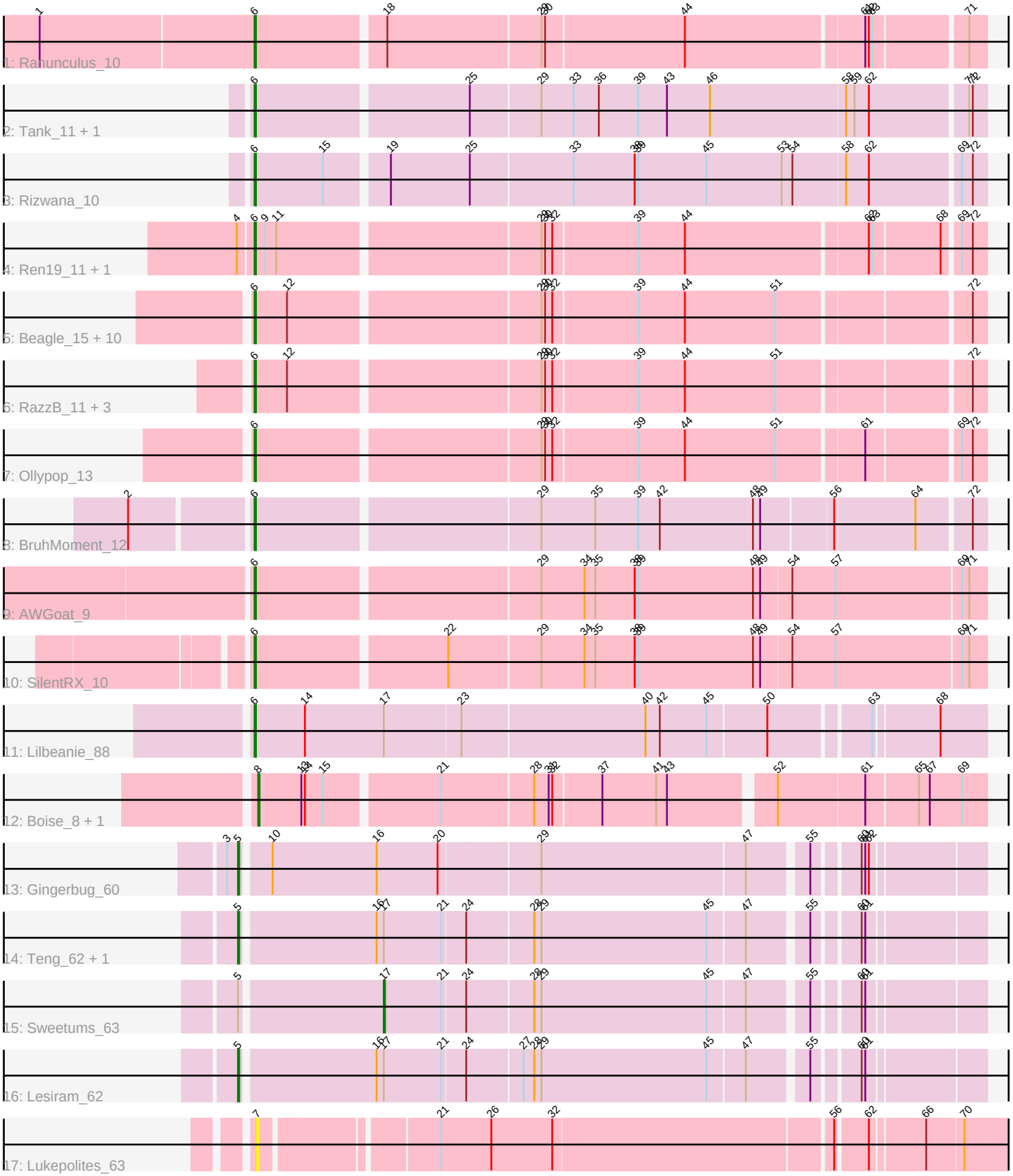
Pham 347871


1: Ranunculus_10
2: Tank_11 + 1
3: Rizwana_10
4: Ren19_11 + 1
5: Beagle_15 + 10
6: RazzB_11 + 3
7: Ollypop_13
8: BruhMoment_12
9: AWGoat_9
10: SilentRX_10
11: Lilbeanie_88
12: Boise_8 + 1
13: Gingerbug_60
14: Teng_62 + 1
15: Sweetums_63
16: Lesiram_62
17: Lukepolites_63

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 347871 Report

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

Pham number 347871 has 34 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Ranunculus_10
• Track 2 : Tank_11, Wilde_11
• Track 3 : Rizwana_10
• Track 4 : Ren19_11, Nikan_11
• Track 5 : Beagle_15, Pureglobe5_16, Pointis_14, Popstraw_13, Hive_13, Odyssey395_16, PhuzzTulsa_12, RIPWilbur_12, Kubulix_15, BetaFish_14, DogYard_14
• Track 6 : RazzB_11, Forrestell_12, NyleyClemson_11, MellowYellow_12
• Track 7 : Ollypop_13
• Track 8 : BruhMoment_12
• Track 9 : AWGoat_9
• Track 10 : SilentRX_10
• Track 11 : Lilbeanie_88
• Track 12 : Boise_8, RomansRevenge_8
• Track 13 : Gingerbug_60
• Track 14 : Teng_62, DelaGarza_61
• Track 15 : Sweetums_63
• Track 16 : Lesiram_62
• Track 17 : Lukepolites_63

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

The start number called the most often in the published annotations is 6, it was called in 23 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AWGoat_9, Beagle_15, BetaFish_14, BruhMoment_12, DogYard_14, Forrestell_12, Hive_13, Kubulix_15, Lilbeanie_88, MellowYellow_12, Nikan_11, NyleyClemson_11, Odyssey395_16, Ollypop_13, PhuzzTulsa_12, Pointis_14, Popstraw_13, Pureglobe5_16, RIPWilbur_12, Ranunculus_10, RazzB_11, Ren19_11, Rizwana_10, SilentRX_10, Tank_11, Wilde_11,

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

Genes that do not have the "Most Annotated" start:
• Boise_8, DelaGarza_61, Gingerbug_60, Lesiram_62, Lukepolites_63, RomansRevenge_8, Sweetums_63, Teng_62,

Summary by start number:

Start 5:
• Found in 5 of 34 (14.7%) of genes in pham
• Manual Annotations of this start: 4 of 29
• Called 80.0% of time when present
• Phage (with cluster) where this start called: DelaGarza_61 (GF), Gingerbug_60 (GF), Lesiram_62 (GF), Teng_62 (GF),

Start 6:
• Found in 26 of 34 (76.5%) of genes in pham
• Manual Annotations of this start: 23 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AWGoat_9 (AP4), Beagle_15 (AP2), BetaFish_14 (AP2), BruhMoment_12 (AP3), DogYard_14 (AP2), Forrestell_12 (AP2), Hive_13 (AP2), Kubulix_15 (AP2), Lilbeanie_88 (DE5), MellowYellow_12 (AP2), Nikan_11 (AP2), NyleyClemson_11 (AP2), Odyssey395_16 (AP2), Ollypop_13 (AP2), PhuzzTulsa_12 (AP2), Pointis_14 (AP2), Popstraw_13 (AP2), Pureglobe5_16 (AP2), RIPWilbur_12 (AP2), Ranunculus_10 (AP), RazzB_11 (AP2), Ren19_11 (AP2), Rizwana_10 (AP1), SilentRX_10 (AP4), Tank_11 (AP1), Wilde_11 (AP1),

Start 7:
• Found in 1 of 34 (2.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lukepolites_63 (singleton),

Start 8:
• Found in 2 of 34 (5.9%) 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: Boise_8 (FT), RomansRevenge_8 (FT),

Start 17:
• Found in 5 of 34 (14.7%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Sweetums_63 (GF),

Summary by clusters:

There are 9 clusters represented in this pham: singleton, FT, AP, AP2, AP3, AP1, DE5, AP4, GF,

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

Info for manual annotations of cluster AP1:

•Start number 6 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:
•Start number 6 was manually annotated 15 times for cluster AP2.

Info for manual annotations of cluster AP3:
•Start number 6 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:
•Start number 6 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster DE5:
•Start number 6 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster FT:
•Start number 8 was manually annotated 1 time for cluster FT.

Info for manual annotations of cluster GF:
•Start number 5 was manually annotated 4 times for cluster GF.
•Start number 17 was manually annotated 1 time for cluster GF.

Gene Information:

Gene: AWGoat_9 Start: 3580, Stop: 4173, Start Num: 6
Candidate Starts for AWGoat_9:
(Start: 6 @3580 has 23 MA's), (29, 3808), (34, 3844), (35, 3853), (38, 3886), (39, 3889), (48, 3985), (49, 3991), (54, 4015), (57, 4051), (69, 4153), (71, 4159),

Gene: Beagle_15 Start: 4696, Stop: 5277, Start Num: 6
Candidate Starts for Beagle_15:
(Start: 6 @4696 has 23 MA's), (12, 4723), (29, 4924), (30, 4927), (32, 4933), (39, 5002), (44, 5041), (51, 5116), (72, 5266),

Gene: BetaFish_14 Start: 4896, Stop: 5477, Start Num: 6
Candidate Starts for BetaFish_14:
(Start: 6 @4896 has 23 MA's), (12, 4923), (29, 5124), (30, 5127), (32, 5133), (39, 5202), (44, 5241), (51, 5316), (72, 5466),

Gene: Boise_8 Start: 3035, Stop: 3610, Start Num: 8
Candidate Starts for Boise_8:
(Start: 8 @3035 has 1 MA's), (13, 3071), (14, 3074), (15, 3089), (21, 3179), (28, 3254), (31, 3266), (32, 3269), (37, 3308), (41, 3353), (43, 3362), (52, 3443), (61, 3512), (65, 3554), (67, 3563), (69, 3590),

Gene: BruhMoment_12 Start: 4721, Stop: 5308, Start Num: 6
Candidate Starts for BruhMoment_12:
(2, 4628), (Start: 6 @4721 has 23 MA's), (29, 4949), (35, 4994), (39, 5030), (42, 5048), (48, 5126), (49, 5132), (56, 5189), (64, 5255), (72, 5297),

Gene: DelaGarza_61 Start: 35855, Stop: 35274, Start Num: 5
Candidate Starts for DelaGarza_61:

(Start: 5 @35855 has 4 MA's), (16, 35747), (Start: 17 @35741 has 1 MA's), (21, 35693), (24, 35675), (28, 35621), (29, 35615), (45, 35477), (47, 35447), (55, 35402), (60, 35369), (61, 35366),

Gene: DogYard_14 Start: 4766, Stop: 5347, Start Num: 6
Candidate Starts for DogYard_14:
(Start: 6 @4766 has 23 MA's), (12, 4793), (29, 4994), (30, 4997), (32, 5003), (39, 5072), (44, 5111), (51, 5186), (72, 5336),

Gene: Forrestell_12 Start: 4123, Stop: 4704, Start Num: 6
Candidate Starts for Forrestell_12:
(Start: 6 @4123 has 23 MA's), (12, 4150), (29, 4351), (30, 4354), (32, 4360), (39, 4429), (44, 4468), (51, 4543), (72, 4693),

Gene: Gingerbug_60 Start: 36358, Stop: 35777, Start Num: 5
Candidate Starts for Gingerbug_60:
(3, 36367), (Start: 5 @36358 has 4 MA's), (10, 36337), (16, 36250), (20, 36199), (29, 36118), (47, 35950), (55, 35905), (60, 35872), (61, 35869), (62, 35866),

Gene: Hive_13 Start: 4780, Stop: 5361, Start Num: 6
Candidate Starts for Hive_13:
(Start: 6 @4780 has 23 MA's), (12, 4807), (29, 5008), (30, 5011), (32, 5017), (39, 5086), (44, 5125), (51, 5200), (72, 5350),

Gene: Kubulix_15 Start: 4895, Stop: 5476, Start Num: 6
Candidate Starts for Kubulix_15:
(Start: 6 @4895 has 23 MA's), (12, 4922), (29, 5123), (30, 5126), (32, 5132), (39, 5201), (44, 5240), (51, 5315), (72, 5465),

Gene: Lesiram_62 Start: 36108, Stop: 35527, Start Num: 5
Candidate Starts for Lesiram_62:
(Start: 5 @36108 has 4 MA's), (16, 36000), (Start: 17 @35994 has 1 MA's), (21, 35946), (24, 35928), (27, 35883), (28, 35874), (29, 35868), (45, 35730), (47, 35700), (55, 35655), (60, 35622), (61, 35619),

Gene: Lilbeanie_88 Start: 53927, Stop: 54514, Start Num: 6
Candidate Starts for Lilbeanie_88:
(Start: 6 @53927 has 23 MA's), (14, 53969), (Start: 17 @54035 has 1 MA's), (23, 54098), (40, 54248), (42, 54260), (45, 54299), (50, 54347), (63, 54425), (68, 54476),

Gene: Lukepolites_63 Start: 41719, Stop: 42342, Start Num: 7
Candidate Starts for Lukepolites_63:
(7, 41719), (21, 41854), (26, 41896), (32, 41947), (56, 42172), (62, 42196), (66, 42238), (70, 42268),

Gene: MellowYellow_12 Start: 4153, Stop: 4734, Start Num: 6
Candidate Starts for MellowYellow_12:
(Start: 6 @4153 has 23 MA's), (12, 4180), (29, 4381), (30, 4384), (32, 4390), (39, 4459), (44, 4498), (51, 4573), (72, 4723),

Gene: Nikan_11 Start: 4634, Stop: 5215, Start Num: 6
Candidate Starts for Nikan_11:
(4, 4622), (Start: 6 @4634 has 23 MA's), (9, 4643), (11, 4652), (29, 4862), (30, 4865), (32, 4871), (39, 4940), (44, 4979), (62, 5126), (63, 5129), (68, 5183), (69, 5195), (72, 5204),

Gene: NyleyClemson_11 Start: 4095, Stop: 4676, Start Num: 6

Candidate Starts for NyleyClemson_11:
(Start: 6 @4095 has 23 MA's), (12, 4122), (29, 4323), (30, 4326), (32, 4332), (39, 4401), (44, 4440), (51, 4515), (72, 4665),

Gene: Odyssey395_16 Start: 4894, Stop: 5475, Start Num: 6
Candidate Starts for Odyssey395_16:
(Start: 6 @4894 has 23 MA's), (12, 4921), (29, 5122), (30, 5125), (32, 5131), (39, 5200), (44, 5239), (51, 5314), (72, 5464),

Gene: Ollypop_13 Start: 4602, Stop: 5183, Start Num: 6
Candidate Starts for Ollypop_13:
(Start: 6 @4602 has 23 MA's), (29, 4830), (30, 4833), (32, 4839), (39, 4908), (44, 4947), (51, 5022), (61, 5091), (69, 5163), (72, 5172),

Gene: PhuzzTulsa_12 Start: 4684, Stop: 5265, Start Num: 6
Candidate Starts for PhuzzTulsa_12:
(Start: 6 @4684 has 23 MA's), (12, 4711), (29, 4912), (30, 4915), (32, 4921), (39, 4990), (44, 5029), (51, 5104), (72, 5254),

Gene: Pointis_14 Start: 4895, Stop: 5476, Start Num: 6
Candidate Starts for Pointis_14:
(Start: 6 @4895 has 23 MA's), (12, 4922), (29, 5123), (30, 5126), (32, 5132), (39, 5201), (44, 5240), (51, 5315), (72, 5465),

Gene: Popstraw_13 Start: 4684, Stop: 5265, Start Num: 6
Candidate Starts for Popstraw_13:
(Start: 6 @4684 has 23 MA's), (12, 4711), (29, 4912), (30, 4915), (32, 4921), (39, 4990), (44, 5029), (51, 5104), (72, 5254),

Gene: Pureglobe5_16 Start: 4908, Stop: 5489, Start Num: 6
Candidate Starts for Pureglobe5_16:
(Start: 6 @4908 has 23 MA's), (12, 4935), (29, 5136), (30, 5139), (32, 5145), (39, 5214), (44, 5253), (51, 5328), (72, 5478),

Gene: RIPWilbur_12 Start: 4548, Stop: 5129, Start Num: 6
Candidate Starts for RIPWilbur_12:
(Start: 6 @4548 has 23 MA's), (12, 4575), (29, 4776), (30, 4779), (32, 4785), (39, 4854), (44, 4893), (51, 4968), (72, 5118),

Gene: Ranunculus_10 Start: 4388, Stop: 4969, Start Num: 6
Candidate Starts for Ranunculus_10:
(1, 4211), (Start: 6 @4388 has 23 MA's), (18, 4490), (29, 4616), (30, 4619), (44, 4733), (61, 4877), (62, 4880), (63, 4883), (71, 4955),

Gene: RazzB_11 Start: 3923, Stop: 4504, Start Num: 6
Candidate Starts for RazzB_11:
(Start: 6 @3923 has 23 MA's), (12, 3950), (29, 4151), (30, 4154), (32, 4160), (39, 4229), (44, 4268), (51, 4343), (72, 4493),

Gene: Ren19_11 Start: 4634, Stop: 5215, Start Num: 6
Candidate Starts for Ren19_11:
(4, 4622), (Start: 6 @4634 has 23 MA's), (9, 4643), (11, 4652), (29, 4862), (30, 4865), (32, 4871), (39, 4940), (44, 4979), (62, 5126), (63, 5129), (68, 5183), (69, 5195), (72, 5204),

Gene: Rizwana_10 Start: 4484, Stop: 5074, Start Num: 6
Candidate Starts for Rizwana_10:
(Start: 6 @4484 has 23 MA's), (15, 4541), (19, 4589), (25, 4655), (33, 4739), (38, 4790), (39, 4793), (45, 4850), (53, 4913), (54, 4922), (58, 4964), (62, 4982), (69, 5054), (72, 5063),

Gene: RomansRevenge_8 Start: 3035, Stop: 3610, Start Num: 8
Candidate Starts for RomansRevenge_8:
(Start: 8 @3035 has 1 MA's), (13, 3071), (14, 3074), (15, 3089), (21, 3179), (28, 3254), (31, 3266), (32, 3269), (37, 3308), (41, 3353), (43, 3362), (52, 3443), (61, 3512), (65, 3554), (67, 3563), (69, 3590),

Gene: SilentRX_10 Start: 3301, Stop: 3894, Start Num: 6
Candidate Starts for SilentRX_10:
(Start: 6 @3301 has 23 MA's), (22, 3454), (29, 3529), (34, 3565), (35, 3574), (38, 3607), (39, 3610), (48, 3706), (49, 3712), (54, 3736), (57, 3772), (69, 3874), (71, 3880),

Gene: Sweetums_63 Start: 35628, Stop: 35161, Start Num: 17
Candidate Starts for Sweetums_63:
(Start: 5 @35742 has 4 MA's), (Start: 17 @35628 has 1 MA's), (21, 35580), (24, 35562), (28, 35508), (29, 35502), (45, 35364), (47, 35334), (55, 35289), (60, 35256), (61, 35253),

Gene: Tank_11 Start: 4502, Stop: 5092, Start Num: 6
Candidate Starts for Tank_11:
(Start: 6 @4502 has 23 MA's), (25, 4673), (29, 4730), (33, 4757), (36, 4778), (39, 4811), (43, 4835), (46, 4871), (58, 4982), (59, 4988), (62, 5000), (71, 5078), (72, 5081),

Gene: Teng_62 Start: 35647, Stop: 35066, Start Num: 5
Candidate Starts for Teng_62:
(Start: 5 @35647 has 4 MA's), (16, 35539), (Start: 17 @35533 has 1 MA's), (21, 35485), (24, 35467), (28, 35413), (29, 35407), (45, 35269), (47, 35239), (55, 35194), (60, 35161), (61, 35158),

Gene: Wilde_11 Start: 4430, Stop: 5020, Start Num: 6
Candidate Starts for Wilde_11:
(Start: 6 @4430 has 23 MA's), (25, 4601), (29, 4658), (33, 4685), (36, 4706), (39, 4739), (43, 4763), (46, 4799), (58, 4910), (59, 4916), (62, 4928), (71, 5006), (72, 5009),