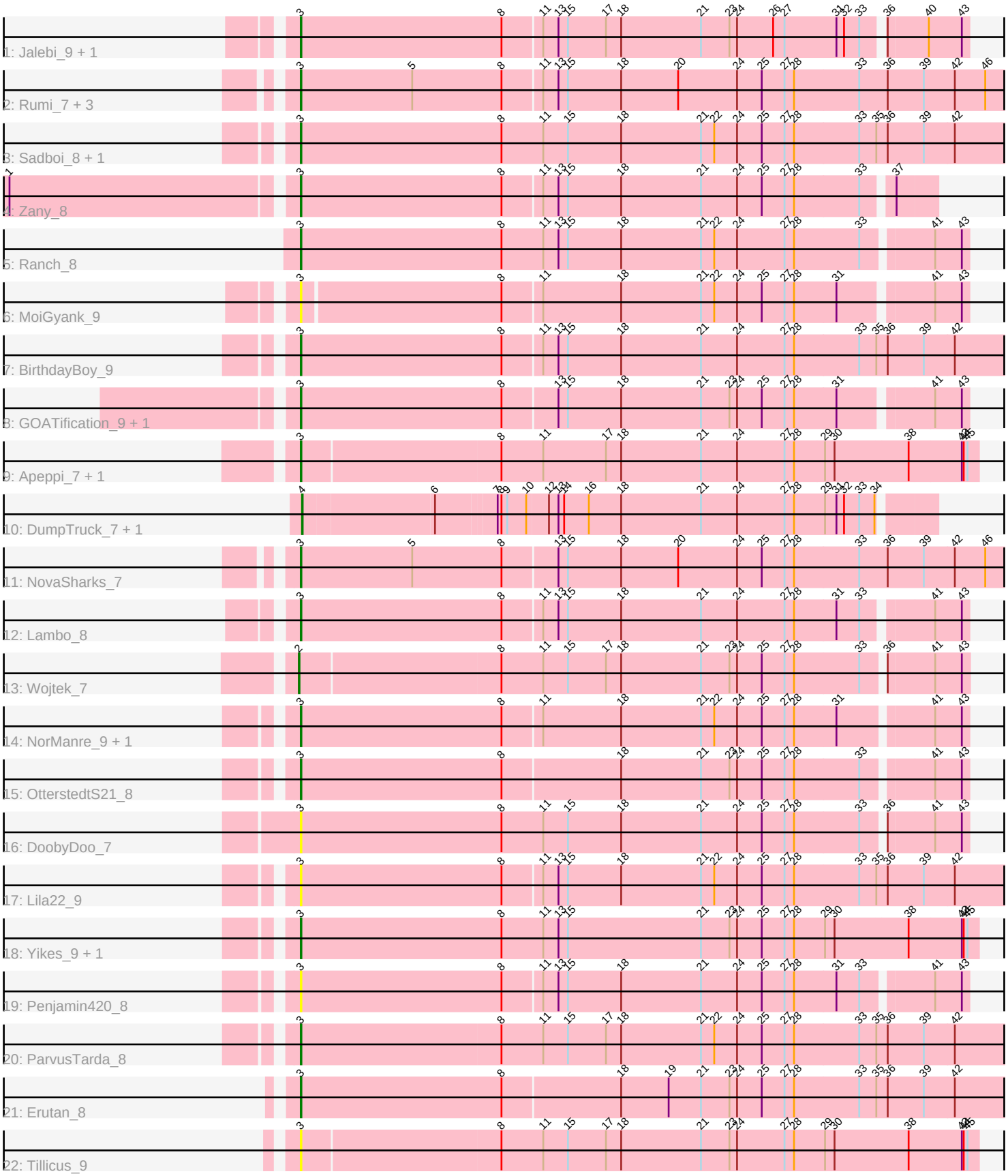
Pham 4266


1: Jalebi_9 + 1
2: Rumi_7 + 3
3: Sadboi_8 + 1
4: Zany_8
5: Ranch_8
6: MoiGyank_9
7: BirthdayBoy_9
8: GOATification_9 + 1
9: Apeppi_7 + 1
10: DumpTruck_7 + 1
11: NovaSharks_7
12: Lambo_8
13: Wojtek_7
14: NorManre_9 + 1
15: OtterstedtS21_8
16: DoobyDoo_7
17: Lila22_9
18: Yikes_9 + 1
19: Penjamin420_8
20: ParvusTarda_8
21: Erutan_8
22: Tillicus_9

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 4266 Report

This analysis was run 04/28/24 on database version 559.

Pham number 4266 has 32 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Jalebi_9, Sampudon_9
• Track 2 : Rumi_7, Genamy16_7, Alyssamiracle_7, Avian_7
• Track 3 : Sadboi_8, GretelLyn_8
• Track 4 : Zany_8
• Track 5 : Ranch_8
• Track 6 : MoiGyank_9
• Track 7 : BirthdayBoy_9
• Track 8 : GOATification_9, Fulcrum_9
• Track 9 : Apeppi_7, LuckyLeo_8
• Track 10 : DumpTruck_7, Xenia2_8
• Track 11 : NovaSharks_7
• Track 12 : Lambo_8
• Track 13 : Wojtek_7
• Track 14 : NorManre_9, Patos_9
• Track 15 : OtterstedtS21_8
• Track 16 : DoobyDoo_7
• Track 17 : Lila22_9
• Track 18 : Yikes_9, Gibbin_9
• Track 19 : Penjamin420_8
• Track 20 : ParvusTarda_8
• Track 21 : Erutan_8
• Track 22 : Tillicus_9

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

The start number called the most often in the published annotations is 3, it was called in 22 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alyssamiracle_7, Apeppi_7, Avian_7, BirthdayBoy_9, DoobyDoo_7, Erutan_8, Fulcrum_9, GOATification_9, Genamy16_7, Gibbin_9, GretelLyn_8, Jalebi_9, Lambo_8, Lila22_9, LuckyLeo_8, MoiGyank_9, NorManre_9, NovaSharks_7, OtterstedtS21_8, ParvusTarda_8, Patos_9, Penjamin420_8, Ranch_8, Rumi_7, Sadboi_8, Sampudon_9, Tillicus_9, Yikes_9, Zany_8,

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

Genes that do not have the "Most Annotated" start:
• DumpTruck_7, Wojtek_7, Xenia2_8,

Summary by start number:

Start 2:
• Found in 1 of 32 (3.1%) of genes in pham
• Manual Annotations of this start: 1 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Wojtek_7 (DV),

Start 3:
• Found in 29 of 32 (90.6%) of genes in pham
• Manual Annotations of this start: 22 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alyssamiracle_7 (DV), Apeppi_7 (DV), Avian_7 (DV), BirthdayBoy_9 (DV), DoobyDoo_7 (DV), Erutan_8 (DV), Fulcrum_9 (DV), GOATification_9 (DV), Genamy16_7 (DV), Gibbin_9 (DV), GretelLyn_8 (DV), Jalebi_9 (DV), Lambo_8 (DV), Lila22_9 (DV), LuckyLeo_8 (DV), MoiGyank_9 (DV), NorManre_9 (DV), NovaSharks_7 (DV), OtterstedtS21_8 (DV), ParvusTarda_8 (DV), Patos_9 (DV), Penjamin420_8 (DV), Ranch_8 (DV), Rumi_7 (DV), Sadboi_8 (DV), Sampudon_9 (DV), Tillicus_9 (DV), Yikes_9 (DV), Zany_8 (DV),

Start 4:
• Found in 2 of 32 (6.2%) of genes in pham
• Manual Annotations of this start: 2 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DumpTruck_7 (DV), Xenia2_8 (DV),

Summary by clusters:

There is one cluster represented in this pham: DV

Info for manual annotations of cluster DV:
•Start number 2 was manually annotated 1 time for cluster DV.
•Start number 3 was manually annotated 22 times for cluster DV.
•Start number 4 was manually annotated 2 times for cluster DV.

Gene Information:

Gene: Alyssamiracle_7 Start: 4797, Stop: 5906, Start Num: 3
Candidate Starts for Alyssamiracle_7:
(Start: 3 @4797 has 22 MA's), (5, 4971), (8, 5112), (11, 5172), (13, 5196), (15, 5211), (18, 5295), (20, 5385), (24, 5478), (25, 5517), (27, 5553), (28, 5568), (33, 5670), (36, 5715), (39, 5772), (42, 5820), (46, 5868),

Gene: Apeppi_7 Start: 6568, Stop: 7620, Start Num: 3

Candidate Starts for Apeppi_7:
(Start: 3 @6568 has 22 MA's), (8, 6874), (11, 6940), (17, 7039), (18, 7063), (21, 7189), (24, 7246), (27, 7321), (28, 7336), (29, 7384), (30, 7399), (38, 7513), (43, 7594), (44, 7597), (45, 7603),

Gene: Avian_7 Start: 4797, Stop: 5906, Start Num: 3
Candidate Starts for Avian_7:
(Start: 3 @4797 has 22 MA's), (5, 4971), (8, 5112), (11, 5172), (13, 5196), (15, 5211), (18, 5295), (20, 5385), (24, 5478), (25, 5517), (27, 5553), (28, 5568), (33, 5670), (36, 5715), (39, 5772), (42, 5820), (46, 5868),

Gene: BirthdayBoy_9 Start: 7243, Stop: 8352, Start Num: 3
Candidate Starts for BirthdayBoy_9:
(Start: 3 @7243 has 22 MA's), (8, 7558), (11, 7618), (13, 7642), (15, 7657), (18, 7741), (21, 7867), (24, 7924), (27, 7999), (28, 8014), (33, 8116), (35, 8143), (36, 8161), (39, 8218), (42, 8266),

Gene: DoobyDoo_7 Start: 6258, Stop: 7286, Start Num: 3
Candidate Starts for DoobyDoo_7:
(Start: 3 @6258 has 22 MA's), (8, 6573), (11, 6639), (15, 6678), (18, 6762), (21, 6888), (24, 6945), (25, 6984), (27, 7020), (28, 7035), (33, 7137), (36, 7164), (41, 7233), (43, 7275),

Gene: DumpTruck_7 Start: 6601, Stop: 7563, Start Num: 4
Candidate Starts for DumpTruck_7:
(Start: 4 @6601 has 2 MA's), (6, 6802), (7, 6892), (8, 6898), (9, 6907), (10, 6937), (12, 6970), (13, 6985), (14, 6994), (16, 7033), (18, 7084), (21, 7210), (24, 7267), (27, 7342), (28, 7357), (29, 7405), (31, 7423), (32, 7435), (33, 7459), (34, 7483),

Gene: Erutan_8 Start: 6690, Stop: 7799, Start Num: 3
Candidate Starts for Erutan_8:
(Start: 3 @6690 has 22 MA's), (8, 7005), (18, 7188), (19, 7263), (21, 7314), (23, 7359), (24, 7371), (25, 7410), (27, 7446), (28, 7461), (33, 7563), (35, 7590), (36, 7608), (39, 7665), (42, 7713),

Gene: Fulcrum_9 Start: 7310, Stop: 8332, Start Num: 3
Candidate Starts for Fulcrum_9:
(Start: 3 @7310 has 22 MA's), (8, 7625), (13, 7709), (15, 7724), (18, 7808), (21, 7934), (23, 7979), (24, 7991), (25, 8030), (27, 8066), (28, 8081), (31, 8147), (41, 8279), (43, 8321),

Gene: GOATification_9 Start: 7310, Stop: 8332, Start Num: 3
Candidate Starts for GOATification_9:
(Start: 3 @7310 has 22 MA's), (8, 7625), (13, 7709), (15, 7724), (18, 7808), (21, 7934), (23, 7979), (24, 7991), (25, 8030), (27, 8066), (28, 8081), (31, 8147), (41, 8279), (43, 8321),

Gene: Genamy16_7 Start: 4797, Stop: 5906, Start Num: 3
Candidate Starts for Genamy16_7:
(Start: 3 @4797 has 22 MA's), (5, 4971), (8, 5112), (11, 5172), (13, 5196), (15, 5211), (18, 5295), (20, 5385), (24, 5478), (25, 5517), (27, 5553), (28, 5568), (33, 5670), (36, 5715), (39, 5772), (42, 5820), (46, 5868),

Gene: Gibbin_9 Start: 7338, Stop: 8399, Start Num: 3
Candidate Starts for Gibbin_9:
(Start: 3 @7338 has 22 MA's), (8, 7653), (11, 7719), (13, 7743), (15, 7758), (21, 7968), (23, 8013), (24, 8025), (25, 8064), (27, 8100), (28, 8115), (29, 8163), (30, 8178), (38, 8292), (43, 8373), (44, 8376), (45, 8382),

Gene: GretelLyn_8 Start: 7551, Stop: 8666, Start Num: 3
Candidate Starts for GretelLyn_8:
(Start: 3 @7551 has 22 MA's), (8, 7866), (11, 7932), (15, 7971), (18, 8055), (21, 8181), (22, 8202), (24, 8238), (25, 8277), (27, 8313), (28, 8328), (33, 8430), (35, 8457), (36, 8475), (39, 8532), (42, 8580),

Gene: Jalebi_9 Start: 7820, Stop: 8842, Start Num: 3
Candidate Starts for Jalebi_9:
(Start: 3 @7820 has 22 MA's), (8, 8135), (11, 8195), (13, 8219), (15, 8234), (17, 8294), (18, 8318), (21, 8444), (23, 8489), (24, 8501), (26, 8558), (27, 8576), (31, 8657), (32, 8669), (33, 8693), (36, 8720), (40, 8780), (43, 8831),

Gene: Lambo_8 Start: 7314, Stop: 8336, Start Num: 3
Candidate Starts for Lambo_8:
(Start: 3 @7314 has 22 MA's), (8, 7629), (11, 7689), (13, 7713), (15, 7728), (18, 7812), (21, 7938), (24, 7995), (27, 8070), (28, 8085), (31, 8151), (33, 8187), (41, 8283), (43, 8325),

Gene: Lila22_9 Start: 7178, Stop: 8287, Start Num: 3
Candidate Starts for Lila22_9:
(Start: 3 @7178 has 22 MA's), (8, 7493), (11, 7553), (13, 7577), (15, 7592), (18, 7676), (21, 7802), (22, 7823), (24, 7859), (25, 7898), (27, 7934), (28, 7949), (33, 8051), (35, 8078), (36, 8096), (39, 8153), (42, 8201),

Gene: LuckyLeo_8 Start: 6568, Stop: 7620, Start Num: 3
Candidate Starts for LuckyLeo_8:
(Start: 3 @6568 has 22 MA's), (8, 6874), (11, 6940), (17, 7039), (18, 7063), (21, 7189), (24, 7246), (27, 7321), (28, 7336), (29, 7384), (30, 7399), (38, 7513), (43, 7594), (44, 7597), (45, 7603),

Gene: MoiGyank_9 Start: 7690, Stop: 8703, Start Num: 3
Candidate Starts for MoiGyank_9:
(Start: 3 @7690 has 22 MA's), (8, 7996), (11, 8056), (18, 8179), (21, 8305), (22, 8326), (24, 8362), (25, 8401), (27, 8437), (28, 8452), (31, 8518), (41, 8650), (43, 8692),

Gene: NorManre_9 Start: 6876, Stop: 7898, Start Num: 3
Candidate Starts for NorManre_9:
(Start: 3 @6876 has 22 MA's), (8, 7191), (11, 7251), (18, 7374), (21, 7500), (22, 7521), (24, 7557), (25, 7596), (27, 7632), (28, 7647), (31, 7713), (41, 7845), (43, 7887),

Gene: NovaSharks_7 Start: 4797, Stop: 5906, Start Num: 3
Candidate Starts for NovaSharks_7:
(Start: 3 @4797 has 22 MA's), (5, 4971), (8, 5112), (13, 5196), (15, 5211), (18, 5295), (20, 5385), (24, 5478), (25, 5517), (27, 5553), (28, 5568), (33, 5670), (36, 5715), (39, 5772), (42, 5820), (46, 5868),

Gene: OtterstedtS21_8 Start: 6966, Stop: 7988, Start Num: 3
Candidate Starts for OtterstedtS21_8:
(Start: 3 @6966 has 22 MA's), (8, 7281), (18, 7464), (21, 7590), (23, 7635), (24, 7647), (25, 7686), (27, 7722), (28, 7737), (33, 7839), (41, 7935), (43, 7977),

Gene: ParvusTarda_8 Start: 6358, Stop: 7470, Start Num: 3
Candidate Starts for ParvusTarda_8:
(Start: 3 @6358 has 22 MA's), (8, 6670), (11, 6736), (15, 6775), (17, 6835), (18, 6859), (21, 6985), (22, 7006), (24, 7042), (25, 7081), (27, 7117), (28, 7132), (33, 7234), (35, 7261), (36, 7279), (39, 7336), (42, 7384),

Gene: Patos_9 Start: 6876, Stop: 7898, Start Num: 3
Candidate Starts for Patos_9:
(Start: 3 @6876 has 22 MA's), (8, 7191), (11, 7251), (18, 7374), (21, 7500), (22, 7521), (24, 7557), (25, 7596), (27, 7632), (28, 7647), (31, 7713), (41, 7845), (43, 7887),

Gene: Penjamin420_8 Start: 7087, Stop: 8109, Start Num: 3
Candidate Starts for Penjamin420_8:
(Start: 3 @7087 has 22 MA's), (8, 7402), (11, 7462), (13, 7486), (15, 7501), (18, 7585), (21, 7711), (24, 7768), (25, 7807), (27, 7843), (28, 7858), (31, 7924), (33, 7960), (41, 8056), (43, 8098),

Gene: Ranch_8 Start: 5811, Stop: 6839, Start Num: 3
Candidate Starts for Ranch_8:
(Start: 3 @5811 has 22 MA's), (8, 6126), (11, 6192), (13, 6216), (15, 6231), (18, 6315), (21, 6441), (22, 6462), (24, 6498), (27, 6573), (28, 6588), (33, 6690), (41, 6786), (43, 6828),

Gene: Rumi_7 Start: 4797, Stop: 5906, Start Num: 3
Candidate Starts for Rumi_7:
(Start: 3 @4797 has 22 MA's), (5, 4971), (8, 5112), (11, 5172), (13, 5196), (15, 5211), (18, 5295), (20, 5385), (24, 5478), (25, 5517), (27, 5553), (28, 5568), (33, 5670), (36, 5715), (39, 5772), (42, 5820), (46, 5868),

Gene: Sadboi_8 Start: 7551, Stop: 8666, Start Num: 3
Candidate Starts for Sadboi_8:
(Start: 3 @7551 has 22 MA's), (8, 7866), (11, 7932), (15, 7971), (18, 8055), (21, 8181), (22, 8202), (24, 8238), (25, 8277), (27, 8313), (28, 8328), (33, 8430), (35, 8457), (36, 8475), (39, 8532), (42, 8580),

Gene: Sampudon_9 Start: 7820, Stop: 8842, Start Num: 3
Candidate Starts for Sampudon_9:
(Start: 3 @7820 has 22 MA's), (8, 8135), (11, 8195), (13, 8219), (15, 8234), (17, 8294), (18, 8318), (21, 8444), (23, 8489), (24, 8501), (26, 8558), (27, 8576), (31, 8657), (32, 8669), (33, 8693), (36, 8720), (40, 8780), (43, 8831),

Gene: Tillicus_9 Start: 6157, Stop: 7209, Start Num: 3
Candidate Starts for Tillicus_9:
(Start: 3 @6157 has 22 MA's), (8, 6463), (11, 6529), (15, 6568), (17, 6628), (18, 6652), (21, 6778), (23, 6823), (24, 6835), (27, 6910), (28, 6925), (29, 6973), (30, 6988), (38, 7102), (43, 7183), (44, 7186), (45, 7192),

Gene: Wojtek_7 Start: 6510, Stop: 7532, Start Num: 2
Candidate Starts for Wojtek_7:
(Start: 2 @6510 has 1 MA's), (8, 6819), (11, 6885), (15, 6924), (17, 6984), (18, 7008), (21, 7134), (23, 7179), (24, 7191), (25, 7230), (27, 7266), (28, 7281), (33, 7383), (36, 7410), (41, 7479), (43, 7521),

Gene: Xenia2_8 Start: 6604, Stop: 7566, Start Num: 4
Candidate Starts for Xenia2_8:
(Start: 4 @6604 has 2 MA's), (6, 6805), (7, 6895), (8, 6901), (9, 6910), (10, 6940), (12, 6973), (13, 6988), (14, 6997), (16, 7036), (18, 7087), (21, 7213), (24, 7270), (27, 7345), (28, 7360), (29, 7408), (31, 7426), (32, 7438), (33, 7462), (34, 7486),

Gene: Yikes_9 Start: 7876, Stop: 8937, Start Num: 3
Candidate Starts for Yikes_9:
(Start: 3 @7876 has 22 MA's), (8, 8191), (11, 8257), (13, 8281), (15, 8296), (21, 8506), (23, 8551), (24, 8563), (25, 8602), (27, 8638), (28, 8653), (29, 8701), (30, 8716), (38, 8830), (43, 8911), (44, 8914),

(45, 8920),

Gene: Zany_8 Start: 7083, Stop: 8060, Start Num: 3
Candidate Starts for Zany_8:
(1, 6651), (Start: 3 @7083 has 22 MA's), (8, 7398), (11, 7458), (13, 7482), (15, 7497), (18, 7581), (21, 7707), (24, 7764), (25, 7803), (27, 7839), (28, 7854), (33, 7956), (37, 7998),