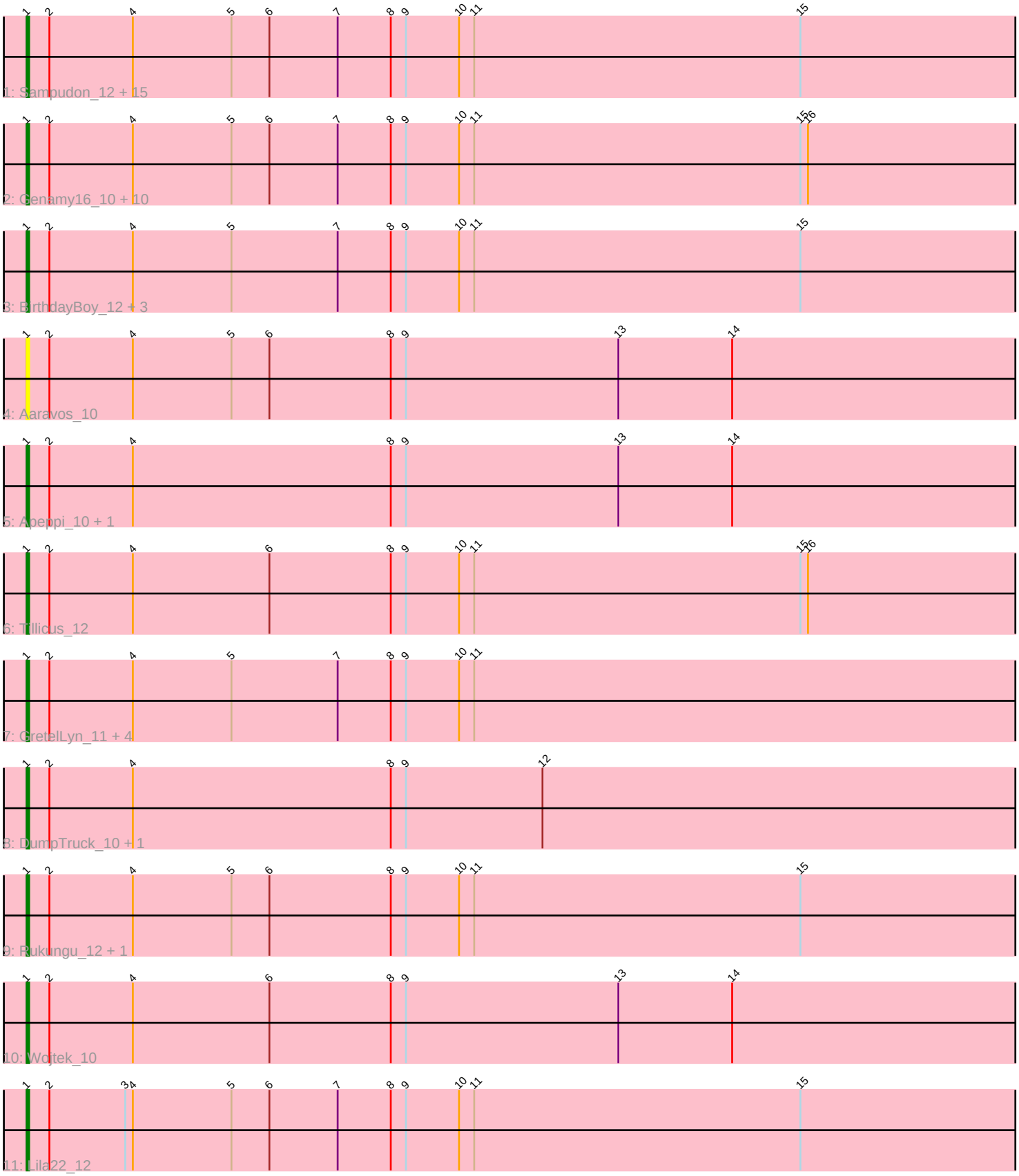
Zoomed Pham 344129



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 344129 Report

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

Pham number 344129 has 46 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Sampudon_12, Yikes_12, ParvusTarda_11, LavAbarElk_10, GOATification_12, Mima20_11, Lambo_11, DaviePasture_11, Alephilan_10, Fulcrum_12, DoobyDoo_10, Ranch_11, Erutan_11, Jalebi_12, Nettle_11, Rota_11
• Track 2 : Genamy16_10, Riduram_10, NovaSharks_10, Charminar_10, Jamemuya19_10, Rumi_10, Astralis_10, Alyssamiracle_10, Stormer_10, RazorC_10, Avian_10
• Track 3 : BirthdayBoy_12, Patos_12, NorManre_12, Pywacket_11
• Track 4 : Aaravos_10
• Track 5 : Apeppi_10, LuckyLeo_11
• Track 6 : Tillicus_12
• Track 7 : GretelLyn_11, Gibbin_12, OtterstedtS21_11, MoiGyank_13, Sadboi_11
• Track 8 : DumpTruck_10, Xenia2_11
• Track 9 : Rukungu_12, Zany_11
• Track 10 : Wojtek_10
• Track 11 : Lila22_12

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

The start number called the most often in the published annotations is 1, it was called in 40 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aaravos_10, Alephilan_10, Alyssamiracle_10, Apeppi_10, Astralis_10, Avian_10, BirthdayBoy_12, Charminar_10, DaviePasture_11, DoobyDoo_10, DumpTruck_10, Erutan_11, Fulcrum_12, GOATification_12, Genamy16_10, Gibbin_12, GretelLyn_11, Jalebi_12, Jamemuya19_10, Lambo_11, LavAbarElk_10, Lila22_12, LuckyLeo_11, Mima20_11, MoiGyank_13, Nettle_11, NorManre_12, NovaSharks_10, OtterstedtS21_11, ParvusTarda_11, Patos_12, Pywacket_11, Ranch_11, RazorC_10, Riduram_10, Rota_11, Rukungu_12, Rumi_10, Sadboi_11, Sampudon_12, Stormer_10, Tillicus_12, Wojtek_10, Xenia2_11, Yikes_12, Zany_11,

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

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

Summary by start number:

Start 1:
• Found in 46 of 46 (100.0%) of genes in pham
• Manual Annotations of this start: 40 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aaravos_10 (DV), Alephilan_10 (DV), Alyssamiracle_10 (DV), Apeppi_10 (DV), Astralis_10 (DV), Avian_10 (DV), BirthdayBoy_12 (DV), Charminar_10 (DV), DaviePasture_11 (DV), DoobyDoo_10 (DV), DumpTruck_10 (DV), Erutan_11 (DV), Fulcrum_12 (DV), GOATification_12 (DV), Genamy16_10 (DV), Gibbin_12 (DV), GretelLyn_11 (DV), Jalebi_12 (DV), Jamemuya19_10 (DV), Lambo_11 (DV), LavAbarElk_10 (DV), Lila22_12 (DV), LuckyLeo_11 (DV), Mima20_11 (DV), MoiGyank_13 (DV), Nettle_11 (DV), NorManre_12 (DV), NovaSharks_10 (DV), OtterstedtS21_11 (DV), ParvusTarda_11 (DV), Patos_12 (DV), Pywacket_11 (DV), Ranch_11 (DV), RazorC_10 (DV), Riduram_10 (DV), Rota_11 (DV), Rukungu_12 (DV), Rumi_10 (DV), Sadboi_11 (DV), Sampudon_12 (DV), Stormer_10 (DV), Tillicus_12 (DV), Wojtek_10 (DV), Xenia2_11 (DV), Yikes_12 (DV), Zany_11 (DV),

Summary by clusters:

There is one cluster represented in this pham: DV

Info for manual annotations of cluster DV:
•Start number 1 was manually annotated 40 times for cluster DV.

Gene Information:

Gene: Aaravos_10 Start: 8738, Stop: 9190, Start Num: 1
Candidate Starts for Aaravos_10:
(Start: 1 @8738 has 40 MA's), (2, 8747), (4, 8780), (5, 8819), (6, 8834), (8, 8882), (9, 8888), (13, 8972), (14, 9017),

Gene: Alephilan_10 Start: 8608, Stop: 9057, Start Num: 1
Candidate Starts for Alephilan_10:
(Start: 1 @8608 has 40 MA's), (2, 8617), (4, 8650), (5, 8689), (6, 8704), (7, 8731), (8, 8752), (9, 8758), (10, 8779), (11, 8785), (15, 8914), (17, 9031),

Gene: Alyssamiracle_10 Start: 7081, Stop: 7530, Start Num: 1
Candidate Starts for Alyssamiracle_10:
(Start: 1 @7081 has 40 MA's), (2, 7090), (4, 7123), (5, 7162), (6, 7177), (7, 7204), (8, 7225), (9, 7231), (10, 7252), (11, 7258), (15, 7387), (16, 7390), (17, 7504),

Gene: Apeppi_10 Start: 8791, Stop: 9243, Start Num: 1
Candidate Starts for Apeppi_10:
(Start: 1 @8791 has 40 MA's), (2, 8800), (4, 8833), (8, 8935), (9, 8941), (13, 9025), (14, 9070),

Gene: Astralis_10 Start: 7081, Stop: 7530, Start Num: 1

Candidate Starts for Astralis_10:
(Start: 1 @7081 has 40 MA's), (2, 7090), (4, 7123), (5, 7162), (6, 7177), (7, 7204), (8, 7225), (9, 7231), (10, 7252), (11, 7258), (15, 7387), (16, 7390), (17, 7504),

Gene: Avian_10 Start: 7081, Stop: 7530, Start Num: 1
Candidate Starts for Avian_10:
(Start: 1 @7081 has 40 MA's), (2, 7090), (4, 7123), (5, 7162), (6, 7177), (7, 7204), (8, 7225), (9, 7231), (10, 7252), (11, 7258), (15, 7387), (16, 7390), (17, 7504),

Gene: BirthdayBoy_12 Start: 9527, Stop: 9982, Start Num: 1
Candidate Starts for BirthdayBoy_12:
(Start: 1 @9527 has 40 MA's), (2, 9536), (4, 9569), (5, 9608), (7, 9650), (8, 9671), (9, 9677), (10, 9698), (11, 9704), (15, 9833), (17, 9950),

Gene: Charminar_10 Start: 7081, Stop: 7530, Start Num: 1
Candidate Starts for Charminar_10:
(Start: 1 @7081 has 40 MA's), (2, 7090), (4, 7123), (5, 7162), (6, 7177), (7, 7204), (8, 7225), (9, 7231), (10, 7252), (11, 7258), (15, 7387), (16, 7390), (17, 7504),

Gene: DaviePasture_11 Start: 9284, Stop: 9733, Start Num: 1
Candidate Starts for DaviePasture_11:
(Start: 1 @9284 has 40 MA's), (2, 9293), (4, 9326), (5, 9365), (6, 9380), (7, 9407), (8, 9428), (9, 9434), (10, 9455), (11, 9461), (15, 9590), (17, 9707),

Gene: DoobyDoo_10 Start: 8461, Stop: 8910, Start Num: 1
Candidate Starts for DoobyDoo_10:
(Start: 1 @8461 has 40 MA's), (2, 8470), (4, 8503), (5, 8542), (6, 8557), (7, 8584), (8, 8605), (9, 8611), (10, 8632), (11, 8638), (15, 8767), (17, 8884),

Gene: DumpTruck_10 Start: 8724, Stop: 9176, Start Num: 1
Candidate Starts for DumpTruck_10:
(Start: 1 @8724 has 40 MA's), (2, 8733), (4, 8766), (8, 8868), (9, 8874), (12, 8928), (17, 9144),

Gene: Erutan_11 Start: 8974, Stop: 9423, Start Num: 1
Candidate Starts for Erutan_11:
(Start: 1 @8974 has 40 MA's), (2, 8983), (4, 9016), (5, 9055), (6, 9070), (7, 9097), (8, 9118), (9, 9124), (10, 9145), (11, 9151), (15, 9280), (17, 9397),

Gene: Fulcrum_12 Start: 9507, Stop: 9962, Start Num: 1
Candidate Starts for Fulcrum_12:
(Start: 1 @9507 has 40 MA's), (2, 9516), (4, 9549), (5, 9588), (6, 9603), (7, 9630), (8, 9651), (9, 9657), (10, 9678), (11, 9684), (15, 9813), (17, 9930),

Gene: GOATification_12 Start: 9507, Stop: 9962, Start Num: 1
Candidate Starts for GOATification_12:
(Start: 1 @9507 has 40 MA's), (2, 9516), (4, 9549), (5, 9588), (6, 9603), (7, 9630), (8, 9651), (9, 9657), (10, 9678), (11, 9684), (15, 9813), (17, 9930),

Gene: Genamy16_10 Start: 7081, Stop: 7530, Start Num: 1
Candidate Starts for Genamy16_10:
(Start: 1 @7081 has 40 MA's), (2, 7090), (4, 7123), (5, 7162), (6, 7177), (7, 7204), (8, 7225), (9, 7231), (10, 7252), (11, 7258), (15, 7387), (16, 7390), (17, 7504),

Gene: Gibbin_12 Start: 9567, Stop: 10022, Start Num: 1
Candidate Starts for Gibbin_12:
(Start: 1 @9567 has 40 MA's), (2, 9576), (4, 9609), (5, 9648), (7, 9690), (8, 9711), (9, 9717), (10, 9738), (11, 9744), (17, 9990),

Gene: GretelLyn_11 Start: 9841, Stop: 10290, Start Num: 1
Candidate Starts for GretelLyn_11:
(Start: 1 @9841 has 40 MA's), (2, 9850), (4, 9883), (5, 9922), (7, 9964), (8, 9985), (9, 9991), (10, 10012), (11, 10018), (17, 10264),

Gene: Jalebi_12 Start: 10017, Stop: 10466, Start Num: 1
Candidate Starts for Jalebi_12:
(Start: 1 @10017 has 40 MA's), (2, 10026), (4, 10059), (5, 10098), (6, 10113), (7, 10140), (8, 10161), (9, 10167), (10, 10188), (11, 10194), (15, 10323), (17, 10440),

Gene: Jamemuya19_10 Start: 7081, Stop: 7530, Start Num: 1
Candidate Starts for Jamemuya19_10:
(Start: 1 @7081 has 40 MA's), (2, 7090), (4, 7123), (5, 7162), (6, 7177), (7, 7204), (8, 7225), (9, 7231), (10, 7252), (11, 7258), (15, 7387), (16, 7390), (17, 7504),

Gene: Lambo_11 Start: 9511, Stop: 9960, Start Num: 1
Candidate Starts for Lambo_11:
(Start: 1 @9511 has 40 MA's), (2, 9520), (4, 9553), (5, 9592), (6, 9607), (7, 9634), (8, 9655), (9, 9661), (10, 9682), (11, 9688), (15, 9817), (17, 9934),

Gene: LavAbarElk_10 Start: 7944, Stop: 8393, Start Num: 1
Candidate Starts for LavAbarElk_10:
(Start: 1 @7944 has 40 MA's), (2, 7953), (4, 7986), (5, 8025), (6, 8040), (7, 8067), (8, 8088), (9, 8094), (10, 8115), (11, 8121), (15, 8250), (17, 8367),

Gene: Lila22_12 Start: 9462, Stop: 9911, Start Num: 1
Candidate Starts for Lila22_12:
(Start: 1 @9462 has 40 MA's), (2, 9471), (3, 9501), (4, 9504), (5, 9543), (6, 9558), (7, 9585), (8, 9606), (9, 9612), (10, 9633), (11, 9639), (15, 9768), (17, 9885),

Gene: LuckyLeo_11 Start: 8791, Stop: 9243, Start Num: 1
Candidate Starts for LuckyLeo_11:
(Start: 1 @8791 has 40 MA's), (2, 8800), (4, 8833), (8, 8935), (9, 8941), (13, 9025), (14, 9070),

Gene: Mima20_11 Start: 9191, Stop: 9640, Start Num: 1
Candidate Starts for Mima20_11:
(Start: 1 @9191 has 40 MA's), (2, 9200), (4, 9233), (5, 9272), (6, 9287), (7, 9314), (8, 9335), (9, 9341), (10, 9362), (11, 9368), (15, 9497), (17, 9614),

Gene: MoiGyank_13 Start: 9878, Stop: 10333, Start Num: 1
Candidate Starts for MoiGyank_13:
(Start: 1 @9878 has 40 MA's), (2, 9887), (4, 9920), (5, 9959), (7, 10001), (8, 10022), (9, 10028), (10, 10049), (11, 10055), (17, 10301),

Gene: Nettle_11 Start: 9744, Stop: 10193, Start Num: 1
Candidate Starts for Nettle_11:
(Start: 1 @9744 has 40 MA's), (2, 9753), (4, 9786), (5, 9825), (6, 9840), (7, 9867), (8, 9888), (9, 9894), (10, 9915), (11, 9921), (15, 10050), (17, 10167),

Gene: NorManre_12 Start: 9073, Stop: 9522, Start Num: 1
Candidate Starts for NorManre_12:
(Start: 1 @9073 has 40 MA's), (2, 9082), (4, 9115), (5, 9154), (7, 9196), (8, 9217), (9, 9223), (10, 9244), (11, 9250), (15, 9379), (17, 9496),

Gene: NovaSharks_10 Start: 7081, Stop: 7530, Start Num: 1
Candidate Starts for NovaSharks_10:
(Start: 1 @7081 has 40 MA's), (2, 7090), (4, 7123), (5, 7162), (6, 7177), (7, 7204), (8, 7225), (9, 7231), (10, 7252), (11, 7258), (15, 7387), (16, 7390), (17, 7504),

Gene: OtterstedtS21_11 Start: 9163, Stop: 9618, Start Num: 1
Candidate Starts for OtterstedtS21_11:
(Start: 1 @9163 has 40 MA's), (2, 9172), (4, 9205), (5, 9244), (7, 9286), (8, 9307), (9, 9313), (10, 9334), (11, 9340), (17, 9586),

Gene: ParvusTarda_11 Start: 8645, Stop: 9100, Start Num: 1
Candidate Starts for ParvusTarda_11:
(Start: 1 @8645 has 40 MA's), (2, 8654), (4, 8687), (5, 8726), (6, 8741), (7, 8768), (8, 8789), (9, 8795), (10, 8816), (11, 8822), (15, 8951), (17, 9068),

Gene: Patos_12 Start: 9073, Stop: 9522, Start Num: 1
Candidate Starts for Patos_12:
(Start: 1 @9073 has 40 MA's), (2, 9082), (4, 9115), (5, 9154), (7, 9196), (8, 9217), (9, 9223), (10, 9244), (11, 9250), (15, 9379), (17, 9496),

Gene: Pywacket_11 Start: 10002, Stop: 10451, Start Num: 1
Candidate Starts for Pywacket_11:
(Start: 1 @10002 has 40 MA's), (2, 10011), (4, 10044), (5, 10083), (7, 10125), (8, 10146), (9, 10152), (10, 10173), (11, 10179), (15, 10308), (17, 10425),

Gene: Ranch_11 Start: 8014, Stop: 8463, Start Num: 1
Candidate Starts for Ranch_11:
(Start: 1 @8014 has 40 MA's), (2, 8023), (4, 8056), (5, 8095), (6, 8110), (7, 8137), (8, 8158), (9, 8164), (10, 8185), (11, 8191), (15, 8320), (17, 8437),

Gene: RazorC_10 Start: 7081, Stop: 7530, Start Num: 1
Candidate Starts for RazorC_10:
(Start: 1 @7081 has 40 MA's), (2, 7090), (4, 7123), (5, 7162), (6, 7177), (7, 7204), (8, 7225), (9, 7231), (10, 7252), (11, 7258), (15, 7387), (16, 7390), (17, 7504),

Gene: Riduram_10 Start: 7051, Stop: 7500, Start Num: 1
Candidate Starts for Riduram_10:
(Start: 1 @7051 has 40 MA's), (2, 7060), (4, 7093), (5, 7132), (6, 7147), (7, 7174), (8, 7195), (9, 7201), (10, 7222), (11, 7228), (15, 7357), (16, 7360), (17, 7474),

Gene: Rota_11 Start: 8972, Stop: 9421, Start Num: 1
Candidate Starts for Rota_11:
(Start: 1 @8972 has 40 MA's), (2, 8981), (4, 9014), (5, 9053), (6, 9068), (7, 9095), (8, 9116), (9, 9122), (10, 9143), (11, 9149), (15, 9278), (17, 9395),

Gene: Rukungu_12 Start: 9710, Stop: 10159, Start Num: 1
Candidate Starts for Rukungu_12:

(Start: 1 @9710 has 40 MA's), (2, 9719), (4, 9752), (5, 9791), (6, 9806), (8, 9854), (9, 9860), (10, 9881), (11, 9887), (15, 10016), (17, 10133),

Gene: Rumi_10 Start: 7081, Stop: 7530, Start Num: 1
Candidate Starts for Rumi_10:
(Start: 1 @7081 has 40 MA's), (2, 7090), (4, 7123), (5, 7162), (6, 7177), (7, 7204), (8, 7225), (9, 7231), (10, 7252), (11, 7258), (15, 7387), (16, 7390), (17, 7504),

Gene: Sadboi_11 Start: 9841, Stop: 10290, Start Num: 1
Candidate Starts for Sadboi_11:
(Start: 1 @9841 has 40 MA's), (2, 9850), (4, 9883), (5, 9922), (7, 9964), (8, 9985), (9, 9991), (10, 10012), (11, 10018), (17, 10264),

Gene: Sampudon_12 Start: 10017, Stop: 10466, Start Num: 1
Candidate Starts for Sampudon_12:
(Start: 1 @10017 has 40 MA's), (2, 10026), (4, 10059), (5, 10098), (6, 10113), (7, 10140), (8, 10161), (9, 10167), (10, 10188), (11, 10194), (15, 10323), (17, 10440),

Gene: Stormer_10 Start: 7081, Stop: 7530, Start Num: 1
Candidate Starts for Stormer_10:
(Start: 1 @7081 has 40 MA's), (2, 7090), (4, 7123), (5, 7162), (6, 7177), (7, 7204), (8, 7225), (9, 7231), (10, 7252), (11, 7258), (15, 7387), (16, 7390), (17, 7504),

Gene: Tillicus_12 Start: 8380, Stop: 8835, Start Num: 1
Candidate Starts for Tillicus_12:
(Start: 1 @8380 has 40 MA's), (2, 8389), (4, 8422), (6, 8476), (8, 8524), (9, 8530), (10, 8551), (11, 8557), (15, 8686), (16, 8689), (17, 8803),

Gene: Wojtek_10 Start: 8707, Stop: 9159, Start Num: 1
Candidate Starts for Wojtek_10:
(Start: 1 @8707 has 40 MA's), (2, 8716), (4, 8749), (6, 8803), (8, 8851), (9, 8857), (13, 8941), (14, 8986),

Gene: Xenia2_11 Start: 8763, Stop: 9215, Start Num: 1
Candidate Starts for Xenia2_11:
(Start: 1 @8763 has 40 MA's), (2, 8772), (4, 8805), (8, 8907), (9, 8913), (12, 8967), (17, 9183),

Gene: Yikes_12 Start: 10105, Stop: 10554, Start Num: 1
Candidate Starts for Yikes_12:
(Start: 1 @10105 has 40 MA's), (2, 10114), (4, 10147), (5, 10186), (6, 10201), (7, 10228), (8, 10249), (9, 10255), (10, 10276), (11, 10282), (15, 10411), (17, 10528),

Gene: Zany_11 Start: 9231, Stop: 9680, Start Num: 1
Candidate Starts for Zany_11:
(Start: 1 @9231 has 40 MA's), (2, 9240), (4, 9273), (5, 9312), (6, 9327), (8, 9375), (9, 9381), (10, 9402), (11, 9408), (15, 9537), (17, 9654),