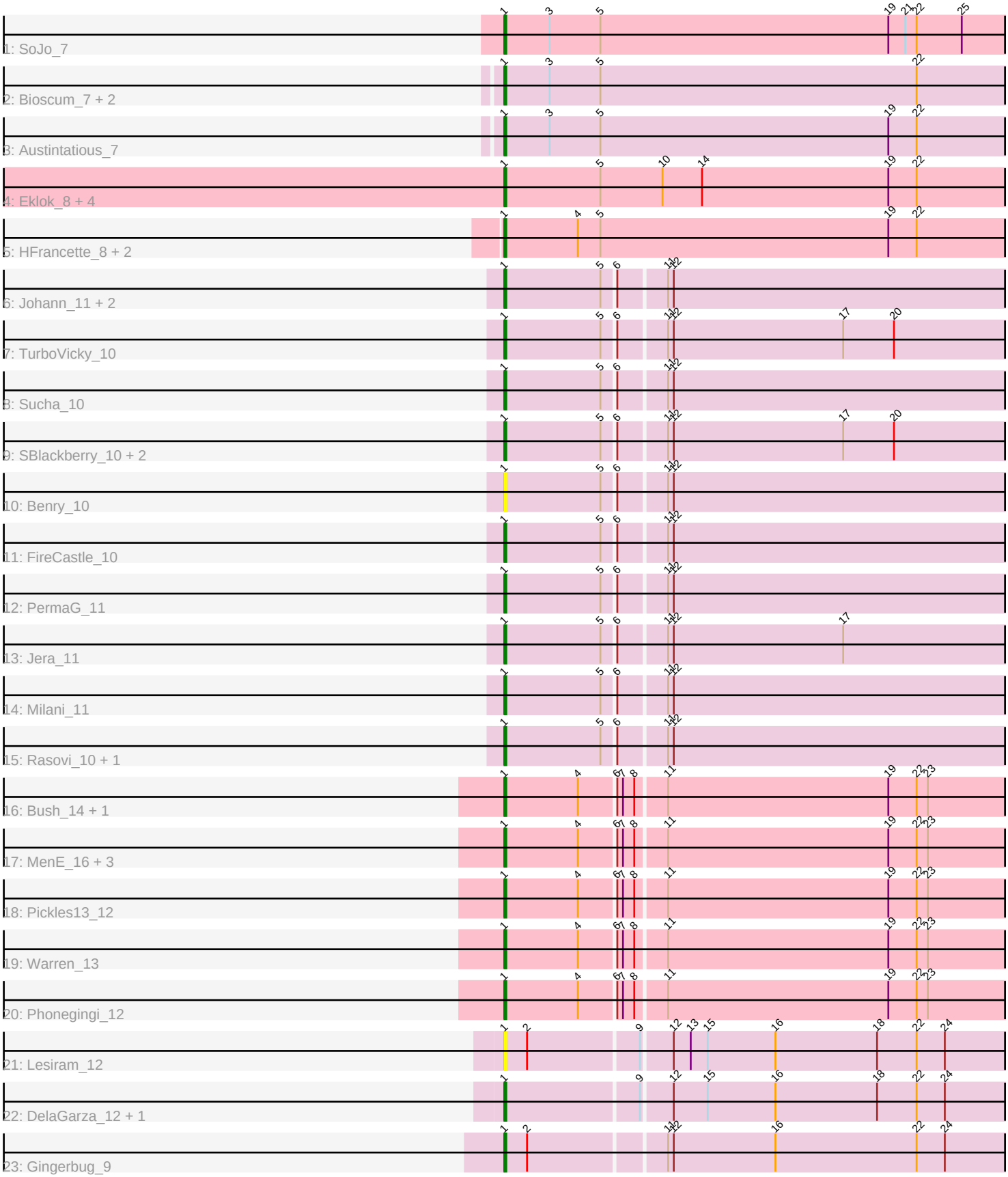
Zoomed Pham 2582



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 2582 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 2582 has 41 members, 6 are drafts.

Phages represented in each track:
• Track 1 : SoJo_7
• Track 2 : Bioscum_7, PapayaSalad_7, Ididsumtinwong_7
• Track 3 : Austintatious_7
• Track 4 : Eklok_8, Piccadilly_8, AxeJC_8, Cumberbatch_8, Eastland_8
• Track 5 : HFrancette_8, Ignacio_8, Vondra_8
• Track 6 : Johann_11, Cicada_12, Goodman_11
• Track 7 : TurboVicky_10
• Track 8 : Sucha_10
• Track 9 : SBlackberry_10, Typher_12, Zanella_10
• Track 10 : Benry_10
• Track 11 : FireCastle_10
• Track 12 : PermaG_11
• Track 13 : Jera_11
• Track 14 : Milani_11
• Track 15 : Rasovi_10, Htur_10
• Track 16 : Bush_14, Blett_13
• Track 17 : MenE_16, Antuna_13, Dropshot_12, Appa_12
• Track 18 : Pickles13_12
• Track 19 : Warren_13
• Track 20 : Phonegingi_12
• Track 21 : Lesiram_12
• Track 22 : DelaGarza_12, Teng_13
• Track 23 : Gingerbug_9

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 35 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Antuna_13, Appa_12, Austintatious_7, AxeJC_8, Benry_10, Bioscum_7, Blett_13, Bush_14, Cicada_12, Cumberbatch_8, DelaGarza_12, Dropshot_12, Eastland_8, Eklok_8, FireCastle_10, Gingerbug_9, Goodman_11, HFrancette_8, Htur_10, Ididsumtinwong_7, Ignacio_8, Jera_11, Johann_11, Lesiram_12, MenE_16, Milani_11, PapayaSalad_7, PermaG_11, Phonegingi_12, Piccadilly_8, Pickles13_12, Rasovi_10, SBlackberry_10, SoJo_7, Sucha_10, Teng_13, TurboVicky_10, Typher_12, Vondra_8, Warren_13, Zanella_10,

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 41 of 41 (100.0%) of genes in pham
• Manual Annotations of this start: 35 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Antuna_13 (GA), Appa_12 (GA), Austintatious_7 (BC3), AxeJC_8 (BP), Benry_10 (EJ), Bioscum_7 (BC3), Blett_13 (GA), Bush_14 (GA), Cicada_12 (EJ), Cumberbatch_8 (BP), DelaGarza_12 (GF), Dropshot_12 (GA), Eastland_8 (BP), Eklok_8 (BP), FireCastle_10 (EJ), Gingerbug_9 (GF), Goodman_11 (EJ), HFrancette_8 (BP), Htur_10 (EJ), Ididsumtinwong_7 (BC3), Ignacio_8 (BP), Jera_11 (EJ), Johann_11 (EJ), Lesiram_12 (GF), MenE_16 (GA), Milani_11 (EJ), PapayaSalad_7 (BC3), PermaG_11 (EJ), Phonegingi_12 (GA), Piccadilly_8 (BP), Pickles13_12 (GA), Rasovi_10 (EJ), SBlackberry_10 (EJ), SoJo_7 (BC1), Sucha_10 (EJ), Teng_13 (GF), TurboVicky_10 (EJ), Typher_12 (EJ), Vondra_8 (BP), Warren_13 (GA), Zanella_10 (EJ),

Summary by clusters:

There are 6 clusters represented in this pham: EJ, GF, BP, GA, BC1, BC3,

Info for manual annotations of cluster BC1:
•Start number 1 was manually annotated 1 time for cluster BC1.

Info for manual annotations of cluster BC3:
•Start number 1 was manually annotated 4 times for cluster BC3.

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

Info for manual annotations of cluster EJ:
•Start number 1 was manually annotated 13 times for cluster EJ.

Info for manual annotations of cluster GA:
•Start number 1 was manually annotated 7 times for cluster GA.

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

Gene Information:

Gene: Antuna_13 Start: 7069, Stop: 7947, Start Num: 1
Candidate Starts for Antuna_13:
(Start: 1 @7069 has 35 MA's), (4, 7108), (6, 7126), (7, 7129), (8, 7135), (11, 7150), (19, 7267), (22, 7282), (23, 7288), (30, 7390), (31, 7396), (36, 7525), (43, 7600), (49, 7720), (51, 7726), (58, 7888), (59, 7912), (60, 7918),

Gene: Appa_12 Start: 6931, Stop: 7809, Start Num: 1
Candidate Starts for Appa_12:
(Start: 1 @6931 has 35 MA's), (4, 6970), (6, 6988), (7, 6991), (8, 6997), (11, 7012), (19, 7129), (22, 7144), (23, 7150), (30, 7252), (31, 7258), (36, 7387), (43, 7462), (49, 7582), (51, 7588), (58, 7750), (59, 7774), (60, 7780),

Gene: Austintatious_7 Start: 6011, Stop: 6865, Start Num: 1
Candidate Starts for Austintatious_7:
(Start: 1 @6011 has 35 MA's), (3, 6035), (5, 6062), (19, 6215), (22, 6230), (45, 6623), (47, 6635), (49, 6662), (55, 6704), (58, 6812), (59, 6836),

Gene: AxeJC_8 Start: 6297, Stop: 7142, Start Num: 1
Candidate Starts for AxeJC_8:
(Start: 1 @6297 has 35 MA's), (5, 6348), (10, 6381), (14, 6402), (19, 6501), (22, 6516), (27, 6585), (28, 6588), (37, 6756), (47, 6912), (48, 6933), (52, 6957), (57, 7077), (58, 7089), (59, 7113),

Gene: Benry_10 Start: 7142, Stop: 7999, Start Num: 1
Candidate Starts for Benry_10:
(Start: 1 @7142 has 35 MA's), (5, 7193), (6, 7199), (11, 7223), (12, 7226), (26, 7403), (29, 7436), (34, 7547), (41, 7625), (50, 7757), (62, 7991),

Gene: Bioscum_7 Start: 6045, Stop: 6902, Start Num: 1
Candidate Starts for Bioscum_7:
(Start: 1 @6045 has 35 MA's), (3, 6069), (5, 6096), (22, 6264), (38, 6516), (49, 6699), (55, 6741), (58, 6849),

Gene: Blett_13 Start: 7083, Stop: 7961, Start Num: 1
Candidate Starts for Blett_13:
(Start: 1 @7083 has 35 MA's), (4, 7122), (6, 7140), (7, 7143), (8, 7149), (11, 7164), (19, 7281), (22, 7296), (23, 7302), (30, 7404), (31, 7410), (35, 7527), (36, 7539), (43, 7614), (49, 7734), (51, 7740), (58, 7902), (59, 7926), (60, 7932),

Gene: Bush_14 Start: 7075, Stop: 7947, Start Num: 1
Candidate Starts for Bush_14:
(Start: 1 @7075 has 35 MA's), (4, 7114), (6, 7132), (7, 7135), (8, 7141), (11, 7156), (19, 7273), (22, 7288), (23, 7294), (30, 7396), (31, 7402), (35, 7519), (36, 7531), (43, 7606), (49, 7726), (51, 7732), (58, 7894), (59, 7918), (60, 7924),

Gene: Cicada_12 Start: 9206, Stop: 10066, Start Num: 1
Candidate Starts for Cicada_12:
(Start: 1 @9206 has 35 MA's), (5, 9257), (6, 9263), (11, 9287), (12, 9290), (26, 9467), (29, 9500), (34, 9611), (38, 9641), (41, 9689), (50, 9821), (56, 9965), (62, 10052),

Gene: Cumberbatch_8 Start: 6284, Stop: 7129, Start Num: 1
Candidate Starts for Cumberbatch_8:
(Start: 1 @6284 has 35 MA's), (5, 6335), (10, 6368), (14, 6389), (19, 6488), (22, 6503), (27, 6572), (28, 6575), (37, 6743), (47, 6899), (48, 6920), (52, 6944), (57, 7064), (58, 7076), (59, 7100),

Gene: DelaGarza_12 Start: 7432, Stop: 8292, Start Num: 1
Candidate Starts for DelaGarza_12:
(Start: 1 @7432 has 35 MA's), (9, 7501), (12, 7516), (15, 7534), (16, 7570), (18, 7624), (22, 7645), (24, 7660), (32, 7783), (46, 8017),

Gene: Dropshot_12 Start: 6931, Stop: 7809, Start Num: 1
Candidate Starts for Dropshot_12:
(Start: 1 @6931 has 35 MA's), (4, 6970), (6, 6988), (7, 6991), (8, 6997), (11, 7012), (19, 7129), (22, 7144), (23, 7150), (30, 7252), (31, 7258), (36, 7387), (43, 7462), (49, 7582), (51, 7588), (58, 7750), (59, 7774), (60, 7780),

Gene: Eastland_8 Start: 6285, Stop: 7130, Start Num: 1
Candidate Starts for Eastland_8:
(Start: 1 @6285 has 35 MA's), (5, 6336), (10, 6369), (14, 6390), (19, 6489), (22, 6504), (27, 6573), (28, 6576), (37, 6744), (47, 6900), (48, 6921), (52, 6945), (57, 7065), (58, 7077), (59, 7101),

Gene: Eklok_8 Start: 6297, Stop: 7142, Start Num: 1
Candidate Starts for Eklok_8:
(Start: 1 @6297 has 35 MA's), (5, 6348), (10, 6381), (14, 6402), (19, 6501), (22, 6516), (27, 6585), (28, 6588), (37, 6756), (47, 6912), (48, 6933), (52, 6957), (57, 7077), (58, 7089), (59, 7113),

Gene: FireCastle_10 Start: 8876, Stop: 9733, Start Num: 1
Candidate Starts for FireCastle_10:
(Start: 1 @8876 has 35 MA's), (5, 8927), (6, 8933), (11, 8957), (12, 8960), (26, 9137), (29, 9170), (34, 9281), (41, 9359), (50, 9491), (52, 9506), (56, 9638), (62, 9725),

Gene: Gingerbug_9 Start: 6620, Stop: 7483, Start Num: 1
Candidate Starts for Gingerbug_9:
(Start: 1 @6620 has 35 MA's), (2, 6632), (11, 6701), (12, 6704), (16, 6758), (22, 6833), (24, 6848), (32, 6971), (41, 7112), (42, 7121), (55, 7319), (58, 7427), (59, 7451), (61, 7475),

Gene: Goodman_11 Start: 9115, Stop: 9978, Start Num: 1
Candidate Starts for Goodman_11:
(Start: 1 @9115 has 35 MA's), (5, 9166), (6, 9172), (11, 9196), (12, 9199), (26, 9376), (29, 9409), (34, 9520), (38, 9550), (41, 9598), (50, 9730), (56, 9877), (62, 9964),

Gene: HFrancette_8 Start: 6287, Stop: 7141, Start Num: 1
Candidate Starts for HFrancette_8:
(Start: 1 @6287 has 35 MA's), (4, 6326), (5, 6338), (19, 6491), (22, 6506), (27, 6575), (33, 6713), (38, 6758), (45, 6899), (49, 6938), (53, 6974), (54, 6977), (58, 7088), (59, 7112),

Gene: Htur_10 Start: 9054, Stop: 9911, Start Num: 1
Candidate Starts for Htur_10:
(Start: 1 @9054 has 35 MA's), (5, 9105), (6, 9111), (11, 9135), (12, 9138), (26, 9315), (29, 9348), (38, 9489), (41, 9537), (50, 9669), (56, 9816), (62, 9903),

Gene: Ididsumtinwong_7 Start: 6045, Stop: 6902, Start Num: 1
Candidate Starts for Ididsumtinwong_7:

(Start: 1 @6045 has 35 MA's), (3, 6069), (5, 6096), (22, 6264), (38, 6516), (49, 6699), (55, 6741), (58, 6849),

Gene: Ignacio_8 Start: 6287, Stop: 7141, Start Num: 1
Candidate Starts for Ignacio_8:
(Start: 1 @6287 has 35 MA's), (4, 6326), (5, 6338), (19, 6491), (22, 6506), (27, 6575), (33, 6713), (38, 6758), (45, 6899), (49, 6938), (53, 6974), (54, 6977), (58, 7088), (59, 7112),

Gene: Jera_11 Start: 8197, Stop: 9060, Start Num: 1
Candidate Starts for Jera_11:
(Start: 1 @8197 has 35 MA's), (5, 8248), (6, 8254), (11, 8278), (12, 8281), (17, 8371), (26, 8458), (29, 8491), (34, 8602), (38, 8632), (41, 8680), (50, 8812), (56, 8959), (62, 9046),

Gene: Johann_11 Start: 9115, Stop: 9978, Start Num: 1
Candidate Starts for Johann_11:
(Start: 1 @9115 has 35 MA's), (5, 9166), (6, 9172), (11, 9196), (12, 9199), (26, 9376), (29, 9409), (34, 9520), (38, 9550), (41, 9598), (50, 9730), (56, 9877), (62, 9964),

Gene: Lesiram_12 Start: 7405, Stop: 8268, Start Num: 1
Candidate Starts for Lesiram_12:
(Start: 1 @7405 has 35 MA's), (2, 7417), (9, 7474), (12, 7489), (13, 7498), (15, 7507), (16, 7543), (18, 7597), (22, 7618), (24, 7633), (32, 7756), (46, 7993),

Gene: MenE_16 Start: 7199, Stop: 8077, Start Num: 1
Candidate Starts for MenE_16:
(Start: 1 @7199 has 35 MA's), (4, 7238), (6, 7256), (7, 7259), (8, 7265), (11, 7280), (19, 7397), (22, 7412), (23, 7418), (30, 7520), (31, 7526), (36, 7655), (43, 7730), (49, 7850), (51, 7856), (58, 8018), (59, 8042), (60, 8048),

Gene: Milani_11 Start: 7798, Stop: 8655, Start Num: 1
Candidate Starts for Milani_11:
(Start: 1 @7798 has 35 MA's), (5, 7849), (6, 7855), (11, 7879), (12, 7882), (26, 8059), (29, 8092), (34, 8203), (41, 8281), (56, 8560), (62, 8647),

Gene: PapayaSalad_7 Start: 6017, Stop: 6874, Start Num: 1
Candidate Starts for PapayaSalad_7:
(Start: 1 @6017 has 35 MA's), (3, 6041), (5, 6068), (22, 6236), (38, 6488), (49, 6671), (55, 6713), (58, 6821),

Gene: PermaG_11 Start: 9137, Stop: 9994, Start Num: 1
Candidate Starts for PermaG_11:
(Start: 1 @9137 has 35 MA's), (5, 9188), (6, 9194), (11, 9218), (12, 9221), (26, 9398), (29, 9431), (34, 9542), (41, 9620), (50, 9752), (52, 9767), (56, 9899), (59, 9947), (62, 9986),

Gene: Phonegingi_12 Start: 6925, Stop: 7803, Start Num: 1
Candidate Starts for Phonegingi_12:
(Start: 1 @6925 has 35 MA's), (4, 6964), (6, 6982), (7, 6985), (8, 6991), (11, 7006), (19, 7123), (22, 7138), (23, 7144), (27, 7207), (30, 7246), (31, 7252), (36, 7381), (49, 7576), (58, 7744), (59, 7768), (60, 7774),

Gene: Piccadilly_8 Start: 6284, Stop: 7129, Start Num: 1
Candidate Starts for Piccadilly_8:

(Start: 1 @6284 has 35 MA's), (5, 6335), (10, 6368), (14, 6389), (19, 6488), (22, 6503), (27, 6572), (28, 6575), (37, 6743), (47, 6899), (48, 6920), (52, 6944), (57, 7064), (58, 7076), (59, 7100),

Gene: Pickles13_12 Start: 7077, Stop: 7973, Start Num: 1
Candidate Starts for Pickles13_12:
(Start: 1 @7077 has 35 MA's), (4, 7116), (6, 7134), (7, 7137), (8, 7143), (11, 7158), (19, 7275), (22, 7290), (23, 7296), (27, 7359), (30, 7398), (31, 7404), (35, 7521), (36, 7533), (39, 7551), (43, 7608), (51, 7734), (58, 7920), (59, 7944), (60, 7950),

Gene: Rasovi_10 Start: 9054, Stop: 9911, Start Num: 1
Candidate Starts for Rasovi_10:
(Start: 1 @9054 has 35 MA's), (5, 9105), (6, 9111), (11, 9135), (12, 9138), (26, 9315), (29, 9348), (38, 9489), (41, 9537), (50, 9669), (56, 9816), (62, 9903),

Gene: SBlackberry_10 Start: 8956, Stop: 9819, Start Num: 1
Candidate Starts for SBlackberry_10:
(Start: 1 @8956 has 35 MA's), (5, 9007), (6, 9013), (11, 9037), (12, 9040), (17, 9130), (20, 9157), (26, 9217), (29, 9250), (34, 9361), (38, 9391), (41, 9439), (50, 9571), (56, 9718), (62, 9805),

Gene: SoJo_7 Start: 6353, Stop: 7210, Start Num: 1
Candidate Starts for SoJo_7:
(Start: 1 @6353 has 35 MA's), (3, 6377), (5, 6404), (19, 6557), (21, 6566), (22, 6572), (25, 6596), (28, 6644), (40, 6842), (44, 6932), (46, 6971), (48, 7001), (55, 7049), (56, 7133),

Gene: Sucha_10 Start: 7139, Stop: 7996, Start Num: 1
Candidate Starts for Sucha_10:
(Start: 1 @7139 has 35 MA's), (5, 7190), (6, 7196), (11, 7220), (12, 7223), (26, 7400), (29, 7433), (41, 7622), (50, 7754), (56, 7901), (62, 7988),

Gene: Teng_13 Start: 7429, Stop: 8289, Start Num: 1
Candidate Starts for Teng_13:
(Start: 1 @7429 has 35 MA's), (9, 7498), (12, 7513), (15, 7531), (16, 7567), (18, 7621), (22, 7642), (24, 7657), (32, 7780), (46, 8014),

Gene: TurboVicky_10 Start: 8953, Stop: 9813, Start Num: 1
Candidate Starts for TurboVicky_10:
(Start: 1 @8953 has 35 MA's), (5, 9004), (6, 9010), (11, 9034), (12, 9037), (17, 9127), (20, 9154), (26, 9214), (29, 9247), (34, 9358), (38, 9388), (41, 9436), (50, 9568), (52, 9583), (56, 9712), (62, 9799),

Gene: Typher_12 Start: 9083, Stop: 9946, Start Num: 1
Candidate Starts for Typher_12:
(Start: 1 @9083 has 35 MA's), (5, 9134), (6, 9140), (11, 9164), (12, 9167), (17, 9257), (20, 9284), (26, 9344), (29, 9377), (34, 9488), (38, 9518), (41, 9566), (50, 9698), (56, 9845), (62, 9932),

Gene: Vondra_8 Start: 6287, Stop: 7141, Start Num: 1
Candidate Starts for Vondra_8:
(Start: 1 @6287 has 35 MA's), (4, 6326), (5, 6338), (19, 6491), (22, 6506), (27, 6575), (33, 6713), (38, 6758), (45, 6899), (49, 6938), (53, 6974), (54, 6977), (58, 7088), (59, 7112),

Gene: Warren_13 Start: 7110, Stop: 8006, Start Num: 1
Candidate Starts for Warren_13:
(Start: 1 @7110 has 35 MA's), (4, 7149), (6, 7167), (7, 7170), (8, 7176), (11, 7191), (19, 7308), (22, 7323), (23, 7329), (27, 7392), (30, 7431), (31, 7437), (35, 7554), (36, 7566), (39, 7584), (48, 7755),

(49, 7761), (51, 7767), (58, 7953), (59, 7977),

Gene: Zanella_10 Start: 8953, Stop: 9816, Start Num: 1
Candidate Starts for Zanella_10:
(Start: 1 @8953 has 35 MA's), (5, 9004), (6, 9010), (11, 9034), (12, 9037), (17, 9127), (20, 9154), (26, 9214), (29, 9247), (34, 9358), (38, 9388), (41, 9436), (50, 9568), (56, 9715), (62, 9802),