Zoomed Pham 347562



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 347562 Report

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

Pham number 347562 has 74 members, 17 are drafts.

Phages represented in each track:
• Track 1 : Settecandela_125, Phrappuccino_125
• Track 2 : LolaVinca_212, FrayBell_217, Belieber_207, Fludd_214, Grasshills_222, Turret_207, Tainan_215, Cactojaque_209, I3_224, Phox_215, LordLeafolot_215, ErnieJ_207, Demodog_220, QBert_206, Blackbrain_211, ChickenPhender_210, Concombre_219, Trinitium_210, JigglyPuff_221, LinStu_213, EasyJones_217, Bezza_207, Nappy_215, Basquiat_211, Bigswole_219, Chargie21_211, PharkleMinkus_214, Specks_218, Pio_222, EggyFarm_223, Bxz1_204, LRRHood_207, Ablatia_213, InterFolia_217, Quasimodo_216, BeanWater_206, Dandelion_222, BigCity_223
• Track 3 : BackyardAgain_210, Maturis_211, NuevoMundo_217, Pier_215, Shifa_191, HyRo_202, Pinkcreek_198, Stubby_198, Moby_210, ChaylaJr_212, Lunareta_212, Montpel_212, Moiqah_209, Sebata_215, JayJay_216, DeejaClivia_202
• Track 4 : Cali_207
• Track 5 : Vortrix_234, Tonenili_236
• Track 6 : Flabslab_209, Alice_201, Rabinovish_207
• Track 7 : Greely_203
• Track 8 : Phabba_207
• Track 9 : Myrna_196
• Track 10 : Pupper_156, CherryTomatoes_157, SCentae_155
• Track 11 : Skog_216
• Track 12 : RedWattleHog_83, Stormageddon_80
• Track 13 : Finch_81
• Track 14 : E3_gp157
• Track 15 : JeanGrey_98

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

The start number called the most often in the published annotations is 10, it was called in 45 of the 57 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ablatia_213, Alice_201, BackyardAgain_210, Basquiat_211, BeanWater_206, Belieber_207, Bezza_207, BigCity_223, Bigswole_219, Blackbrain_211, Bxz1_204,

Cactojaque_209, Cali_207, Chargie21_211, ChaylaJr_212, ChickenPhender_210, Concombre_219, Dandelion_222, DeejaClivia_202, Demodog_220, EasyJones_217, EggyFarm_223, ErnieJ_207, Flabslab_209, Fludd_214, FrayBell_217, Grasshills_222, HyRo_202, I3_224, InterFolia_217, JayJay_216, JigglyPuff_221, LRRHood_207, LinStu_213, LolaVinca_212, LordLeafolot_215, Lunareta_212, Maturis_211, Moby_210, Moiqah_209, Montpel_212, Nappy_215, NuevoMundo_217, PharkleMinkus_214, Phox_215, Pier_215, Pinkcreek_198, Pio_222, QBert_206, Quasimodo_216, Rabinovish_207, Sebata_215, Shifa_191, Specks_218, Stubby_198, Tainan_215, Tonenili_236, Trinitium_210, Turret_207, Vortrix_234,

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

Genes that do not have the "Most Annotated" start:
• CherryTomatoes_157, E3_gp157, Finch_81, Greely_203, JeanGrey_98, Myrna_196, Phabba_207, Phrappuccino_125, Pupper_156, RedWattleHog_83, SCentae_155, Settecandela_125, Skog_216, Stormageddon_80,

Summary by start number:

Start 7:
• Found in 3 of 74 (4.1%) of genes in pham
• Manual Annotations of this start: 2 of 57
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Greely_203 (C2), Myrna_196 (C2), Phabba_207 (C2),

Start 9:
• Found in 1 of 74 (1.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: E3_gp157 (singleton),

Start 10:
• Found in 60 of 74 (81.1%) of genes in pham
• Manual Annotations of this start: 45 of 57
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ablatia_213 (C1), Alice_201 (C1), BackyardAgain_210 (C1), Basquiat_211 (C1), BeanWater_206 (C1), Belieber_207 (C1), Bezza_207 (C1), BigCity_223 (C1), Bigswole_219 (C1), Blackbrain_211 (C1), Bxz1_204 (C1), Cactojaque_209 (C1), Cali_207 (C1), Chargie21_211 (C1), ChaylaJr_212 (C1), ChickenPhender_210 (C1), Concombre_219 (C1), Dandelion_222 (C1), DeejaClivia_202 (C1), Demodog_220 (C1), EasyJones_217 (C1), EggyFarm_223 (C1), ErnieJ_207 (C1), Flabslab_209 (C1), Fludd_214 (C1), FrayBell_217 (C1), Grasshills_222 (C1), HyRo_202 (C1), I3_224 (C1), InterFolia_217 (C1), JayJay_216 (C1), JigglyPuff_221 (C1), LRRHood_207 (C1), LinStu_213 (C1), LolaVinca_212 (C1), LordLeafolot_215 (C1), Lunareta_212 (C1), Maturis_211 (C1), Moby_210 (C1), Moiqah_209 (C1), Montpel_212 (C1), Nappy_215 (C1), NuevoMundo_217 (C1), PharkleMinkus_214 (C1), Phox_215 (C1), Pier_215 (C1), Pinkcreek_198 (C1), Pio_222 (C1), QBert_206 (C1), Quasimodo_216 (C1), Rabinovish_207 (C1), Sebata_215 (C1), Shifa_191 (C1), Specks_218 (C1), Stubby_198 (C1), Tainan_215 (C1), Tonenili_236 (C1), Trinitium_210 (C1), Turret_207 (C1), Vortrix_234 (C1),

Start 11:
• Found in 3 of 74 (4.1%) of genes in pham
• Manual Annotations of this start: 3 of 57
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CherryTomatoes_157 (DO), Pupper_156 (DO), SCentae_155 (DO),

Start 12:
• Found in 1 of 74 (1.4%) of genes in pham
• Manual Annotations of this start: 1 of 57
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Skog_216 (DO),

Start 13:
• Found in 1 of 74 (1.4%) of genes in pham
• Manual Annotations of this start: 1 of 57
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JeanGrey_98 (singleton),

Start 14:
• Found in 4 of 74 (5.4%) of genes in pham
• Manual Annotations of this start: 4 of 57
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phrappuccino_125 (AA), RedWattleHog_83 (DX), Settecandela_125 (AA), Stormageddon_80 (DX),

Start 15:
• Found in 1 of 74 (1.4%) of genes in pham
• Manual Annotations of this start: 1 of 57
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finch_81 (singleton),

Summary by clusters:

There are 6 clusters represented in this pham: AA, DO, singleton, DX, C2, C1,

Info for manual annotations of cluster AA:
•Start number 14 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster C1:
•Start number 10 was manually annotated 45 times for cluster C1.

Info for manual annotations of cluster C2:
•Start number 7 was manually annotated 2 times for cluster C2.

Info for manual annotations of cluster DO:
•Start number 11 was manually annotated 3 times for cluster DO.
•Start number 12 was manually annotated 1 time for cluster DO.

Info for manual annotations of cluster DX:
•Start number 14 was manually annotated 2 times for cluster DX.

Gene Information:

Gene: Ablatia_213 Start: 118742, Stop: 119512, Start Num: 10
Candidate Starts for Ablatia_213:
(Start: 10 @118742 has 45 MA's), (30, 118922), (35, 119006), (37, 119018), (39, 119039), (40, 119042), (43, 119060), (54, 119135), (59, 119168), (73, 119297), (76, 119324), (77, 119339), (83, 119390), (86, 119417), (87, 119435), (88, 119453), (89, 119498),

Gene: Alice_201 Start: 117941, Stop: 118711, Start Num: 10
Candidate Starts for Alice_201:
(Start: 10 @117941 has 45 MA's), (30, 118121), (35, 118205), (37, 118217), (39, 118238), (40, 118241), (43, 118259), (45, 118268), (54, 118334), (59, 118367), (64, 118382), (73, 118496), (76, 118523), (77, 118538), (83, 118589), (86, 118616), (87, 118634), (88, 118652), (89, 118697),

Gene: BackyardAgain_210 Start: 116743, Stop: 117513, Start Num: 10
Candidate Starts for BackyardAgain_210:
(Start: 10 @116743 has 45 MA's), (30, 116923), (35, 117007), (37, 117019), (39, 117040), (40, 117043), (43, 117061), (54, 117136), (59, 117169), (64, 117184), (73, 117298), (76, 117325), (77, 117340), (83, 117391), (86, 117418), (87, 117436), (88, 117454), (89, 117499),

Gene: Basquiat_211 Start: 117297, Stop: 118067, Start Num: 10
Candidate Starts for Basquiat_211:
(Start: 10 @117297 has 45 MA's), (30, 117477), (35, 117561), (37, 117573), (39, 117594), (40, 117597), (43, 117615), (54, 117690), (59, 117723), (73, 117852), (76, 117879), (77, 117894), (83, 117945), (86, 117972), (87, 117990), (88, 118008), (89, 118053),

Gene: BeanWater_206 Start: 117823, Stop: 118593, Start Num: 10
Candidate Starts for BeanWater_206:
(Start: 10 @117823 has 45 MA's), (30, 118003), (35, 118087), (37, 118099), (39, 118120), (40, 118123), (43, 118141), (54, 118216), (59, 118249), (73, 118378), (76, 118405), (77, 118420), (83, 118471), (86, 118498), (87, 118516), (88, 118534), (89, 118579),

Gene: Belieber_207 Start: 116611, Stop: 117381, Start Num: 10
Candidate Starts for Belieber_207:
(Start: 10 @116611 has 45 MA's), (30, 116791), (35, 116875), (37, 116887), (39, 116908), (40, 116911), (43, 116929), (54, 117004), (59, 117037), (73, 117166), (76, 117193), (77, 117208), (83, 117259), (86, 117286), (87, 117304), (88, 117322), (89, 117367),

Gene: Bezza_207 Start: 118335, Stop: 119105, Start Num: 10
Candidate Starts for Bezza_207:
(Start: 10 @118335 has 45 MA's), (30, 118515), (35, 118599), (37, 118611), (39, 118632), (40, 118635), (43, 118653), (54, 118728), (59, 118761), (73, 118890), (76, 118917), (77, 118932), (83, 118983), (86, 119010), (87, 119028), (88, 119046), (89, 119091),

Gene: BigCity_223 Start: 121394, Stop: 122164, Start Num: 10
Candidate Starts for BigCity_223:
(Start: 10 @121394 has 45 MA's), (30, 121574), (35, 121658), (37, 121670), (39, 121691), (40, 121694), (43, 121712), (54, 121787), (59, 121820), (73, 121949), (76, 121976), (77, 121991), (83, 122042), (86, 122069), (87, 122087), (88, 122105), (89, 122150),

Gene: Bigswole_219 Start: 121248, Stop: 122018, Start Num: 10

Candidate Starts for Bigswole_219:
(Start: 10 @121248 has 45 MA's), (30, 121428), (35, 121512), (37, 121524), (39, 121545), (40, 121548), (43, 121566), (54, 121641), (59, 121674), (73, 121803), (76, 121830), (77, 121845), (83, 121896), (86, 121923), (87, 121941), (88, 121959), (89, 122004),

Gene: Blackbrain_211 Start: 118382, Stop: 119152, Start Num: 10
Candidate Starts for Blackbrain_211:
(Start: 10 @118382 has 45 MA's), (30, 118562), (35, 118646), (37, 118658), (39, 118679), (40, 118682), (43, 118700), (54, 118775), (59, 118808), (73, 118937), (76, 118964), (77, 118979), (83, 119030), (86, 119057), (87, 119075), (88, 119093), (89, 119138),

Gene: Bxz1_204 Start: 120857, Stop: 121627, Start Num: 10
Candidate Starts for Bxz1_204:
(Start: 10 @120857 has 45 MA's), (30, 121037), (35, 121121), (37, 121133), (39, 121154), (40, 121157), (43, 121175), (54, 121250), (59, 121283), (73, 121412), (76, 121439), (77, 121454), (83, 121505), (86, 121532), (87, 121550), (88, 121568), (89, 121613),

Gene: Cactojaque_209 Start: 117317, Stop: 118087, Start Num: 10
Candidate Starts for Cactojaque_209:
(Start: 10 @117317 has 45 MA's), (30, 117497), (35, 117581), (37, 117593), (39, 117614), (40, 117617), (43, 117635), (54, 117710), (59, 117743), (73, 117872), (76, 117899), (77, 117914), (83, 117965), (86, 117992), (87, 118010), (88, 118028), (89, 118073),

Gene: Cali_207 Start: 119264, Stop: 120034, Start Num: 10
Candidate Starts for Cali_207:
(Start: 10 @119264 has 45 MA's), (24, 119372), (30, 119444), (35, 119528), (37, 119540), (39, 119561), (40, 119564), (43, 119582), (54, 119657), (59, 119690), (73, 119819), (76, 119846), (77, 119861), (83, 119912), (86, 119939), (87, 119957), (88, 119975), (89, 120020),

Gene: Chargie21_211 Start: 117297, Stop: 118067, Start Num: 10
Candidate Starts for Chargie21_211:
(Start: 10 @117297 has 45 MA's), (30, 117477), (35, 117561), (37, 117573), (39, 117594), (40, 117597), (43, 117615), (54, 117690), (59, 117723), (73, 117852), (76, 117879), (77, 117894), (83, 117945), (86, 117972), (87, 117990), (88, 118008), (89, 118053),

Gene: ChaylaJr_212 Start: 117997, Stop: 118767, Start Num: 10
Candidate Starts for ChaylaJr_212:
(Start: 10 @117997 has 45 MA's), (30, 118177), (35, 118261), (37, 118273), (39, 118294), (40, 118297), (43, 118315), (54, 118390), (59, 118423), (64, 118438), (73, 118552), (76, 118579), (77, 118594), (83, 118645), (86, 118672), (87, 118690), (88, 118708), (89, 118753),

Gene: CherryTomatoes_157 Start: 110871, Stop: 111644, Start Num: 11
Candidate Starts for CherryTomatoes_157:
(Start: 11 @110871 has 3 MA's), (22, 110943), (35, 111147), (37, 111159), (40, 111183), (55, 111279), (61, 111309), (68, 111393), (71, 111426), (73, 111435), (76, 111462), (77, 111477), (81, 111501), (83, 111528), (88, 111591), (89, 111636),

Gene: ChickenPhender_210 Start: 117444, Stop: 118214, Start Num: 10
Candidate Starts for ChickenPhender_210:
(Start: 10 @117444 has 45 MA's), (30, 117624), (35, 117708), (37, 117720), (39, 117741), (40, 117744), (43, 117762), (54, 117837), (59, 117870), (73, 117999), (76, 118026), (77, 118041), (83, 118092), (86, 118119), (87, 118137), (88, 118155), (89, 118200),

Gene: Concombre_219 Start: 120937, Stop: 121707, Start Num: 10
Candidate Starts for Concombre_219:
(Start: 10 @120937 has 45 MA's), (30, 121117), (35, 121201), (37, 121213), (39, 121234), (40, 121237), (43, 121255), (54, 121330), (59, 121363), (73, 121492), (76, 121519), (77, 121534), (83, 121585), (86, 121612), (87, 121630), (88, 121648), (89, 121693),

Gene: Dandelion_222 Start: 122421, Stop: 123191, Start Num: 10
Candidate Starts for Dandelion_222:
(Start: 10 @122421 has 45 MA's), (30, 122601), (35, 122685), (37, 122697), (39, 122718), (40, 122721), (43, 122739), (54, 122814), (59, 122847), (73, 122976), (76, 123003), (77, 123018), (83, 123069), (86, 123096), (87, 123114), (88, 123132), (89, 123177),

Gene: DeejaClivia_202 Start: 117157, Stop: 117927, Start Num: 10
Candidate Starts for DeejaClivia_202:
(Start: 10 @117157 has 45 MA's), (30, 117337), (35, 117421), (37, 117433), (39, 117454), (40, 117457), (43, 117475), (54, 117550), (59, 117583), (64, 117598), (73, 117712), (76, 117739), (77, 117754), (83, 117805), (86, 117832), (87, 117850), (88, 117868), (89, 117913),

Gene: Demodog_220 Start: 120947, Stop: 121717, Start Num: 10
Candidate Starts for Demodog_220:
(Start: 10 @120947 has 45 MA's), (30, 121127), (35, 121211), (37, 121223), (39, 121244), (40, 121247), (43, 121265), (54, 121340), (59, 121373), (73, 121502), (76, 121529), (77, 121544), (83, 121595), (86, 121622), (87, 121640), (88, 121658), (89, 121703),

Gene: E3_gp157 Start: 108661, Stop: 109473, Start Num: 9
Candidate Starts for E3_gp157:
(9, 108661), (20, 108715), (21, 108718), (22, 108739), (23, 108742), (27, 108829), (28, 108841), (30, 108895), (35, 108979), (37, 108991), (38, 109003), (43, 109033), (44, 109036), (65, 109162), (74, 109270), (77, 109309), (78, 109324), (80, 109330), (88, 109423),

Gene: EasyJones_217 Start: 118540, Stop: 119310, Start Num: 10
Candidate Starts for EasyJones_217:
(Start: 10 @118540 has 45 MA's), (30, 118720), (35, 118804), (37, 118816), (39, 118837), (40, 118840), (43, 118858), (54, 118933), (59, 118966), (73, 119095), (76, 119122), (77, 119137), (83, 119188), (86, 119215), (87, 119233), (88, 119251), (89, 119296),

Gene: EggyFarm_223 Start: 121395, Stop: 122165, Start Num: 10
Candidate Starts for EggyFarm_223:
(Start: 10 @121395 has 45 MA's), (30, 121575), (35, 121659), (37, 121671), (39, 121692), (40, 121695), (43, 121713), (54, 121788), (59, 121821), (73, 121950), (76, 121977), (77, 121992), (83, 122043), (86, 122070), (87, 122088), (88, 122106), (89, 122151),

Gene: ErnieJ_207 Start: 116719, Stop: 117489, Start Num: 10
Candidate Starts for ErnieJ_207:
(Start: 10 @116719 has 45 MA's), (30, 116899), (35, 116983), (37, 116995), (39, 117016), (40, 117019), (43, 117037), (54, 117112), (59, 117145), (73, 117274), (76, 117301), (77, 117316), (83, 117367), (86, 117394), (87, 117412), (88, 117430), (89, 117475),

Gene: Finch_81 Start: 70492, Stop: 71337, Start Num: 15
Candidate Starts for Finch_81:
(1, 70099), (2, 70222), (4, 70342), (Start: 15 @70492 has 1 MA's), (21, 70537), (25, 70597), (26, 70624), (30, 70696), (31, 70711), (38, 70804), (41, 70825), (43, 70834), (48, 70888), (56, 70972), (62, 71002), (65, 71020), (66, 71032), (69, 71104), (74, 71128), (75, 71134), (84, 71230),

Gene: Flabslab_209 Start: 116861, Stop: 117631, Start Num: 10
Candidate Starts for Flabslab_209:
(Start: 10 @116861 has 45 MA's), (30, 117041), (35, 117125), (37, 117137), (39, 117158), (40, 117161), (43, 117179), (45, 117188), (54, 117254), (59, 117287), (64, 117302), (73, 117416), (76, 117443), (77, 117458), (83, 117509), (86, 117536), (87, 117554), (88, 117572), (89, 117617),

Gene: Fludd_214 Start: 118252, Stop: 119022, Start Num: 10
Candidate Starts for Fludd_214:
(Start: 10 @118252 has 45 MA's), (30, 118432), (35, 118516), (37, 118528), (39, 118549), (40, 118552), (43, 118570), (54, 118645), (59, 118678), (73, 118807), (76, 118834), (77, 118849), (83, 118900), (86, 118927), (87, 118945), (88, 118963), (89, 119008),

Gene: FrayBell_217 Start: 118342, Stop: 119112, Start Num: 10
Candidate Starts for FrayBell_217:
(Start: 10 @118342 has 45 MA's), (30, 118522), (35, 118606), (37, 118618), (39, 118639), (40, 118642), (43, 118660), (54, 118735), (59, 118768), (73, 118897), (76, 118924), (77, 118939), (83, 118990), (86, 119017), (87, 119035), (88, 119053), (89, 119098),

Gene: Grasshills_222 Start: 121394, Stop: 122164, Start Num: 10
Candidate Starts for Grasshills_222:
(Start: 10 @121394 has 45 MA's), (30, 121574), (35, 121658), (37, 121670), (39, 121691), (40, 121694), (43, 121712), (54, 121787), (59, 121820), (73, 121949), (76, 121976), (77, 121991), (83, 122042), (86, 122069), (87, 122087), (88, 122105), (89, 122150),

Gene: Greely_203 Start: 115700, Stop: 116476, Start Num: 7
Candidate Starts for Greely_203:
(Start: 7 @115700 has 2 MA's), (22, 115787), (30, 115889), (35, 115973), (39, 116006), (43, 116027), (55, 116105), (56, 116108), (60, 116132), (64, 116147), (68, 116219), (73, 116261), (83, 116354), (88, 116417), (89, 116462),

Gene: HyRo_202 Start: 118039, Stop: 118809, Start Num: 10
Candidate Starts for HyRo_202:
(Start: 10 @118039 has 45 MA's), (30, 118219), (35, 118303), (37, 118315), (39, 118336), (40, 118339), (43, 118357), (54, 118432), (59, 118465), (64, 118480), (73, 118594), (76, 118621), (77, 118636), (83, 118687), (86, 118714), (87, 118732), (88, 118750), (89, 118795),

Gene: I3_224 Start: 120484, Stop: 121254, Start Num: 10
Candidate Starts for I3_224:
(Start: 10 @120484 has 45 MA's), (30, 120664), (35, 120748), (37, 120760), (39, 120781), (40, 120784), (43, 120802), (54, 120877), (59, 120910), (73, 121039), (76, 121066), (77, 121081), (83, 121132), (86, 121159), (87, 121177), (88, 121195), (89, 121240),

Gene: InterFolia_217 Start: 120147, Stop: 120917, Start Num: 10
Candidate Starts for InterFolia_217:
(Start: 10 @120147 has 45 MA's), (30, 120327), (35, 120411), (37, 120423), (39, 120444), (40, 120447), (43, 120465), (54, 120540), (59, 120573), (73, 120702), (76, 120729), (77, 120744), (83, 120795), (86, 120822), (87, 120840), (88, 120858), (89, 120903),

Gene: JayJay_216 Start: 119371, Stop: 120141, Start Num: 10
Candidate Starts for JayJay_216:
(Start: 10 @119371 has 45 MA's), (30, 119551), (35, 119635), (37, 119647), (39, 119668), (40, 119671), (43, 119689), (54, 119764), (59, 119797), (64, 119812), (73, 119926), (76, 119953), (77,

119968), (83, 120019), (86, 120046), (87, 120064), (88, 120082), (89, 120127),

Gene: JeanGrey_98 Start: 79852, Stop: 80628, Start Num: 13
Candidate Starts for JeanGrey_98:
(5, 79819), (6, 79831), (Start: 13 @79852 has 1 MA's), (17, 79879), (22, 79921), (34, 80131), (35, 80143), (37, 80155), (42, 80191), (56, 80278), (64, 80317), (68, 80389), (70, 80416), (76, 80458), (79, 80491), (85, 80542),

Gene: JigglyPuff_221 Start: 120945, Stop: 121715, Start Num: 10
Candidate Starts for JigglyPuff_221:
(Start: 10 @120945 has 45 MA's), (30, 121125), (35, 121209), (37, 121221), (39, 121242), (40, 121245), (43, 121263), (54, 121338), (59, 121371), (73, 121500), (76, 121527), (77, 121542), (83, 121593), (86, 121620), (87, 121638), (88, 121656), (89, 121701),

Gene: LRRHood_207 Start: 118237, Stop: 119007, Start Num: 10
Candidate Starts for LRRHood_207:
(Start: 10 @118237 has 45 MA's), (30, 118417), (35, 118501), (37, 118513), (39, 118534), (40, 118537), (43, 118555), (54, 118630), (59, 118663), (73, 118792), (76, 118819), (77, 118834), (83, 118885), (86, 118912), (87, 118930), (88, 118948), (89, 118993),

Gene: LinStu_213 Start: 118524, Stop: 119294, Start Num: 10
Candidate Starts for LinStu_213:
(Start: 10 @118524 has 45 MA's), (30, 118704), (35, 118788), (37, 118800), (39, 118821), (40, 118824), (43, 118842), (54, 118917), (59, 118950), (73, 119079), (76, 119106), (77, 119121), (83, 119172), (86, 119199), (87, 119217), (88, 119235), (89, 119280),

Gene: LolaVinca_212 Start: 119577, Stop: 120347, Start Num: 10
Candidate Starts for LolaVinca_212:
(Start: 10 @119577 has 45 MA's), (30, 119757), (35, 119841), (37, 119853), (39, 119874), (40, 119877), (43, 119895), (54, 119970), (59, 120003), (73, 120132), (76, 120159), (77, 120174), (83, 120225), (86, 120252), (87, 120270), (88, 120288), (89, 120333),

Gene: LordLeafolot_215 Start: 119190, Stop: 119960, Start Num: 10
Candidate Starts for LordLeafolot_215:
(Start: 10 @119190 has 45 MA's), (30, 119370), (35, 119454), (37, 119466), (39, 119487), (40, 119490), (43, 119508), (54, 119583), (59, 119616), (73, 119745), (76, 119772), (77, 119787), (83, 119838), (86, 119865), (87, 119883), (88, 119901), (89, 119946),

Gene: Lunareta_212 Start: 119883, Stop: 120653, Start Num: 10
Candidate Starts for Lunareta_212:
(Start: 10 @119883 has 45 MA's), (30, 120063), (35, 120147), (37, 120159), (39, 120180), (40, 120183), (43, 120201), (54, 120276), (59, 120309), (64, 120324), (73, 120438), (76, 120465), (77, 120480), (83, 120531), (86, 120558), (87, 120576), (88, 120594), (89, 120639),

Gene: Maturis_211 Start: 118739, Stop: 119509, Start Num: 10
Candidate Starts for Maturis_211:
(Start: 10 @118739 has 45 MA's), (30, 118919), (35, 119003), (37, 119015), (39, 119036), (40, 119039), (43, 119057), (54, 119132), (59, 119165), (64, 119180), (73, 119294), (76, 119321), (77, 119336), (83, 119387), (86, 119414), (87, 119432), (88, 119450), (89, 119495),

Gene: Moby_210 Start: 117684, Stop: 118454, Start Num: 10
Candidate Starts for Moby_210:

(Start: 10 @117684 has 45 MA's), (30, 117864), (35, 117948), (37, 117960), (39, 117981), (40, 117984), (43, 118002), (54, 118077), (59, 118110), (64, 118125), (73, 118239), (76, 118266), (77, 118281), (83, 118332), (86, 118359), (87, 118377), (88, 118395), (89, 118440),

Gene: Moiqah_209 Start: 117661, Stop: 118431, Start Num: 10
Candidate Starts for Moiqah_209:
(Start: 10 @117661 has 45 MA's), (30, 117841), (35, 117925), (37, 117937), (39, 117958), (40, 117961), (43, 117979), (54, 118054), (59, 118087), (64, 118102), (73, 118216), (76, 118243), (77, 118258), (83, 118309), (86, 118336), (87, 118354), (88, 118372), (89, 118417),

Gene: Montpel_212 Start: 119881, Stop: 120651, Start Num: 10
Candidate Starts for Montpel_212:
(Start: 10 @119881 has 45 MA's), (30, 120061), (35, 120145), (37, 120157), (39, 120178), (40, 120181), (43, 120199), (54, 120274), (59, 120307), (64, 120322), (73, 120436), (76, 120463), (77, 120478), (83, 120529), (86, 120556), (87, 120574), (88, 120592), (89, 120637),

Gene: Myrna_196 Start: 115086, Stop: 115862, Start Num: 7
Candidate Starts for Myrna_196:
(Start: 7 @115086 has 2 MA's), (22, 115173), (30, 115275), (35, 115359), (39, 115392), (43, 115413), (49, 115440), (53, 115473), (55, 115491), (56, 115494), (63, 115527), (64, 115533), (68, 115605), (71, 115638), (83, 115740), (88, 115803), (89, 115848),

Gene: Nappy_215 Start: 120182, Stop: 120952, Start Num: 10
Candidate Starts for Nappy_215:
(Start: 10 @120182 has 45 MA's), (30, 120362), (35, 120446), (37, 120458), (39, 120479), (40, 120482), (43, 120500), (54, 120575), (59, 120608), (73, 120737), (76, 120764), (77, 120779), (83, 120830), (86, 120857), (87, 120875), (88, 120893), (89, 120938),

Gene: NuevoMundo_217 Start: 120775, Stop: 121545, Start Num: 10
Candidate Starts for NuevoMundo_217:
(Start: 10 @120775 has 45 MA's), (30, 120955), (35, 121039), (37, 121051), (39, 121072), (40, 121075), (43, 121093), (54, 121168), (59, 121201), (64, 121216), (73, 121330), (76, 121357), (77, 121372), (83, 121423), (86, 121450), (87, 121468), (88, 121486), (89, 121531),

Gene: Phabba_207 Start: 115054, Stop: 115830, Start Num: 7
Candidate Starts for Phabba_207:
(Start: 7 @115054 has 2 MA's), (22, 115141), (30, 115243), (35, 115327), (39, 115360), (43, 115381), (55, 115459), (56, 115462), (57, 115465), (64, 115501), (68, 115573), (73, 115615), (83, 115708), (88, 115771), (89, 115816),

Gene: PharkleMinkus_214 Start: 118341, Stop: 119111, Start Num: 10
Candidate Starts for PharkleMinkus_214:
(Start: 10 @118341 has 45 MA's), (30, 118521), (35, 118605), (37, 118617), (39, 118638), (40, 118641), (43, 118659), (54, 118734), (59, 118767), (73, 118896), (76, 118923), (77, 118938), (83, 118989), (86, 119016), (87, 119034), (88, 119052), (89, 119097),

Gene: Phox_215 Start: 119443, Stop: 120213, Start Num: 10
Candidate Starts for Phox_215:
(Start: 10 @119443 has 45 MA's), (30, 119623), (35, 119707), (37, 119719), (39, 119740), (40, 119743), (43, 119761), (54, 119836), (59, 119869), (73, 119998), (76, 120025), (77, 120040), (83, 120091), (86, 120118), (87, 120136), (88, 120154), (89, 120199),

Gene: Phrappuccino_125 Start: 91892, Stop: 92680, Start Num: 14

Candidate Starts for Phrappuccino_125:
(3, 91706), (Start: 14 @91892 has 4 MA's), (19, 91934), (22, 91961), (25, 92000), (34, 92150), (35, 92162), (36, 92168), (37, 92174), (43, 92216), (53, 92279), (56, 92300), (57, 92303), (67, 92387), (73, 92474), (74, 92477), (76, 92501), (83, 92567), (88, 92630),

Gene: Pier_215 Start: 120320, Stop: 121090, Start Num: 10
Candidate Starts for Pier_215:
(Start: 10 @120320 has 45 MA's), (30, 120500), (35, 120584), (37, 120596), (39, 120617), (40, 120620), (43, 120638), (54, 120713), (59, 120746), (64, 120761), (73, 120875), (76, 120902), (77, 120917), (83, 120968), (86, 120995), (87, 121013), (88, 121031), (89, 121076),

Gene: Pinkcreek_198 Start: 117696, Stop: 118466, Start Num: 10
Candidate Starts for Pinkcreek_198:
(Start: 10 @117696 has 45 MA's), (30, 117876), (35, 117960), (37, 117972), (39, 117993), (40, 117996), (43, 118014), (54, 118089), (59, 118122), (64, 118137), (73, 118251), (76, 118278), (77, 118293), (83, 118344), (86, 118371), (87, 118389), (88, 118407), (89, 118452),

Gene: Pio_222 Start: 121512, Stop: 122282, Start Num: 10
Candidate Starts for Pio_222:
(Start: 10 @121512 has 45 MA's), (30, 121692), (35, 121776), (37, 121788), (39, 121809), (40, 121812), (43, 121830), (54, 121905), (59, 121938), (73, 122067), (76, 122094), (77, 122109), (83, 122160), (86, 122187), (87, 122205), (88, 122223), (89, 122268),

Gene: Pupper_156 Start: 111111, Stop: 111884, Start Num: 11
Candidate Starts for Pupper_156:
(Start: 11 @111111 has 3 MA's), (22, 111183), (35, 111387), (37, 111399), (40, 111423), (55, 111519), (61, 111549), (68, 111633), (71, 111666), (73, 111675), (76, 111702), (77, 111717), (81, 111741), (83, 111768), (88, 111831), (89, 111876),

Gene: QBert_206 Start: 117844, Stop: 118614, Start Num: 10
Candidate Starts for QBert_206:
(Start: 10 @117844 has 45 MA's), (30, 118024), (35, 118108), (37, 118120), (39, 118141), (40, 118144), (43, 118162), (54, 118237), (59, 118270), (73, 118399), (76, 118426), (77, 118441), (83, 118492), (86, 118519), (87, 118537), (88, 118555), (89, 118600),

Gene: Quasimodo_216 Start: 119114, Stop: 119884, Start Num: 10
Candidate Starts for Quasimodo_216:
(Start: 10 @119114 has 45 MA's), (30, 119294), (35, 119378), (37, 119390), (39, 119411), (40, 119414), (43, 119432), (54, 119507), (59, 119540), (73, 119669), (76, 119696), (77, 119711), (83, 119762), (86, 119789), (87, 119807), (88, 119825), (89, 119870),

Gene: Rabinovish_207 Start: 119389, Stop: 120159, Start Num: 10
Candidate Starts for Rabinovish_207:
(Start: 10 @119389 has 45 MA's), (30, 119569), (35, 119653), (37, 119665), (39, 119686), (40, 119689), (43, 119707), (45, 119716), (54, 119782), (59, 119815), (64, 119830), (73, 119944), (76, 119971), (77, 119986), (83, 120037), (86, 120064), (87, 120082), (88, 120100), (89, 120145),

Gene: RedWattleHog_83 Start: 76357, Stop: 77220, Start Num: 14
Candidate Starts for RedWattleHog_83:
(8, 76342), (Start: 14 @76357 has 4 MA's), (16, 76363), (21, 76405), (30, 76564), (32, 76615), (33, 76618), (34, 76636), (35, 76648), (38, 76672), (39, 76681), (43, 76702), (47, 76717), (50, 76789), (52, 76834), (54, 76849), (71, 76999), (73, 77008), (74, 77011), (82, 77080), (83, 77101),

Gene: SCentae_155 Start: 111265, Stop: 112038, Start Num: 11
Candidate Starts for SCentae_155:
(Start: 11 @111265 has 3 MA's), (22, 111337), (35, 111541), (37, 111553), (40, 111577), (55, 111673), (61, 111703), (68, 111787), (71, 111820), (73, 111829), (76, 111856), (77, 111871), (81, 111895), (83, 111922), (88, 111985), (89, 112030),

Gene: Sebata_215 Start: 119949, Stop: 120719, Start Num: 10
Candidate Starts for Sebata_215:
(Start: 10 @119949 has 45 MA's), (30, 120129), (35, 120213), (37, 120225), (39, 120246), (40, 120249), (43, 120267), (54, 120342), (59, 120375), (64, 120390), (73, 120504), (76, 120531), (77, 120546), (83, 120597), (86, 120624), (87, 120642), (88, 120660), (89, 120705),

Gene: Settecandela_125 Start: 91892, Stop: 92680, Start Num: 14
Candidate Starts for Settecandela_125:
(3, 91706), (Start: 14 @91892 has 4 MA's), (19, 91934), (22, 91961), (25, 92000), (34, 92150), (35, 92162), (36, 92168), (37, 92174), (43, 92216), (53, 92279), (56, 92300), (57, 92303), (67, 92387), (73, 92474), (74, 92477), (76, 92501), (83, 92567), (88, 92630),

Gene: Shifa_191 Start: 118008, Stop: 118778, Start Num: 10
Candidate Starts for Shifa_191:
(Start: 10 @118008 has 45 MA's), (30, 118188), (35, 118272), (37, 118284), (39, 118305), (40, 118308), (43, 118326), (54, 118401), (59, 118434), (64, 118449), (73, 118563), (76, 118590), (77, 118605), (83, 118656), (86, 118683), (87, 118701), (88, 118719), (89, 118764),

Gene: Skog_216 Start: 140744, Stop: 141520, Start Num: 12
Candidate Starts for Skog_216:
(Start: 12 @140744 has 1 MA's), (18, 140780), (22, 140819), (29, 140918), (35, 141023), (37, 141035), (39, 141056), (40, 141059), (46, 141089), (51, 141119), (53, 141137), (55, 141155), (58, 141167), (61, 141185), (68, 141269), (73, 141311), (74, 141314), (76, 141338), (77, 141353), (83, 141404), (88, 141467),

Gene: Specks_218 Start: 119898, Stop: 120668, Start Num: 10
Candidate Starts for Specks_218:
(Start: 10 @119898 has 45 MA's), (30, 120078), (35, 120162), (37, 120174), (39, 120195), (40, 120198), (43, 120216), (54, 120291), (59, 120324), (73, 120453), (76, 120480), (77, 120495), (83, 120546), (86, 120573), (87, 120591), (88, 120609), (89, 120654),

Gene: Stormageddon_80 Start: 76338, Stop: 77201, Start Num: 14
Candidate Starts for Stormageddon_80:
(8, 76323), (Start: 14 @76338 has 4 MA's), (16, 76344), (21, 76386), (30, 76545), (32, 76596), (33, 76599), (34, 76617), (35, 76629), (38, 76653), (39, 76662), (43, 76683), (47, 76698), (50, 76770), (52, 76815), (54, 76830), (71, 76980), (73, 76989), (74, 76992), (82, 77061), (83, 77082),

Gene: Stubby_198 Start: 117899, Stop: 118669, Start Num: 10
Candidate Starts for Stubby_198:
(Start: 10 @117899 has 45 MA's), (30, 118079), (35, 118163), (37, 118175), (39, 118196), (40, 118199), (43, 118217), (54, 118292), (59, 118325), (64, 118340), (73, 118454), (76, 118481), (77, 118496), (83, 118547), (86, 118574), (87, 118592), (88, 118610), (89, 118655),

Gene: Tainan_215 Start: 118917, Stop: 119687, Start Num: 10
Candidate Starts for Tainan_215:
(Start: 10 @118917 has 45 MA's), (30, 119097), (35, 119181), (37, 119193), (39, 119214), (40, 119217), (43, 119235), (54, 119310), (59, 119343), (73, 119472), (76, 119499), (77, 119514), (83,

119565), (86, 119592), (87, 119610), (88, 119628), (89, 119673),

Gene: Tonenili_236 Start: 124698, Stop: 125468, Start Num: 10
Candidate Starts for Tonenili_236:
(Start: 10 @124698 has 45 MA's), (24, 124806), (30, 124878), (35, 124962), (37, 124974), (39, 124995), (40, 124998), (43, 125016), (54, 125091), (59, 125124), (70, 125238), (72, 125247), (73, 125253), (76, 125280), (77, 125295), (83, 125346), (86, 125373), (87, 125391), (88, 125409), (89, 125454),

Gene: Trinitium_210 Start: 117619, Stop: 118389, Start Num: 10
Candidate Starts for Trinitium_210:
(Start: 10 @117619 has 45 MA's), (30, 117799), (35, 117883), (37, 117895), (39, 117916), (40, 117919), (43, 117937), (54, 118012), (59, 118045), (73, 118174), (76, 118201), (77, 118216), (83, 118267), (86, 118294), (87, 118312), (88, 118330), (89, 118375),

Gene: Turret_207 Start: 117201, Stop: 117971, Start Num: 10
Candidate Starts for Turret_207:
(Start: 10 @117201 has 45 MA's), (30, 117381), (35, 117465), (37, 117477), (39, 117498), (40, 117501), (43, 117519), (54, 117594), (59, 117627), (73, 117756), (76, 117783), (77, 117798), (83, 117849), (86, 117876), (87, 117894), (88, 117912), (89, 117957),

Gene: Vortrix_234 Start: 123485, Stop: 124255, Start Num: 10
Candidate Starts for Vortrix_234:
(Start: 10 @123485 has 45 MA's), (24, 123593), (30, 123665), (35, 123749), (37, 123761), (39, 123782), (40, 123785), (43, 123803), (54, 123878), (59, 123911), (70, 124025), (72, 124034), (73, 124040), (76, 124067), (77, 124082), (83, 124133), (86, 124160), (87, 124178), (88, 124196), (89, 124241),