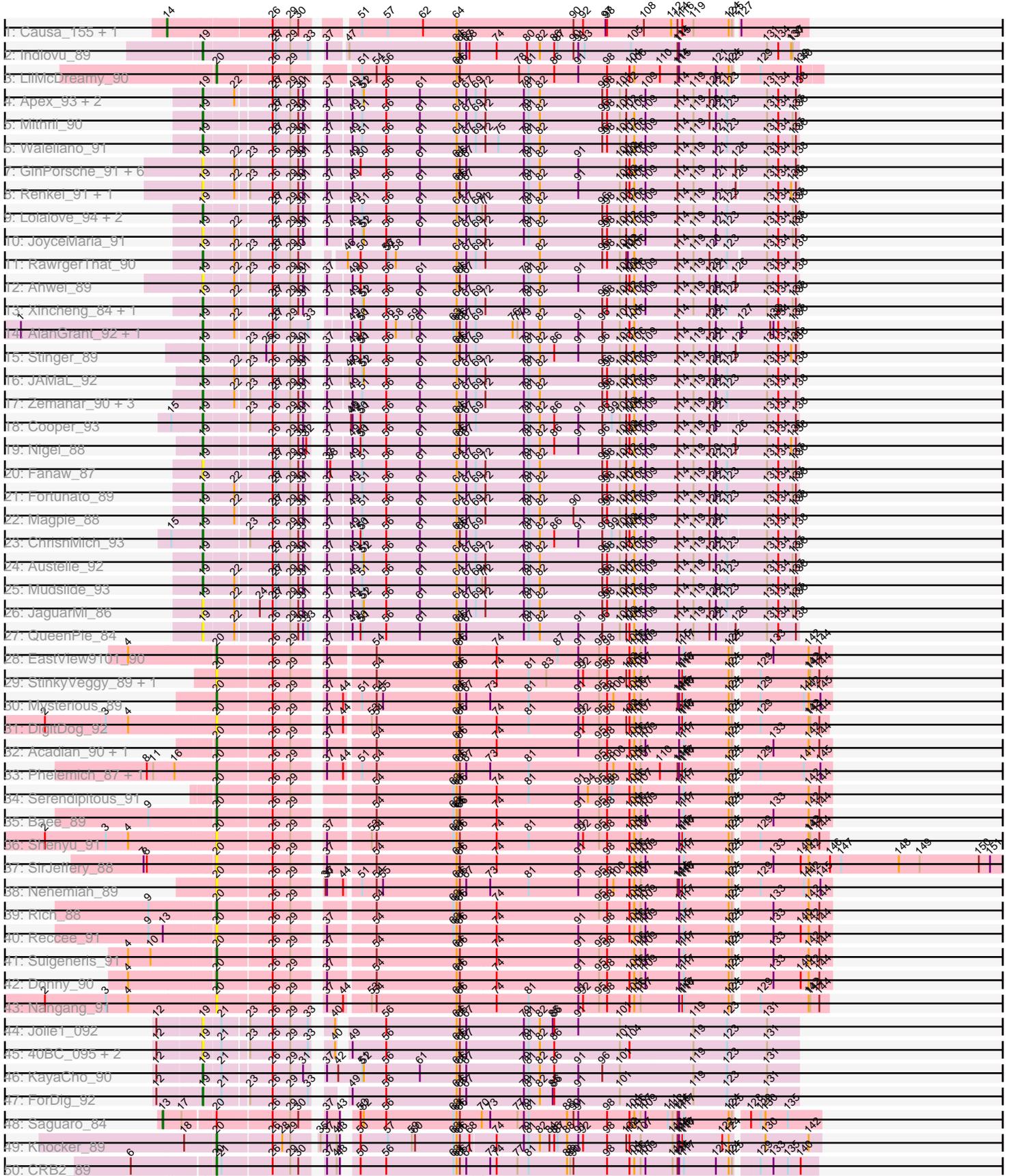
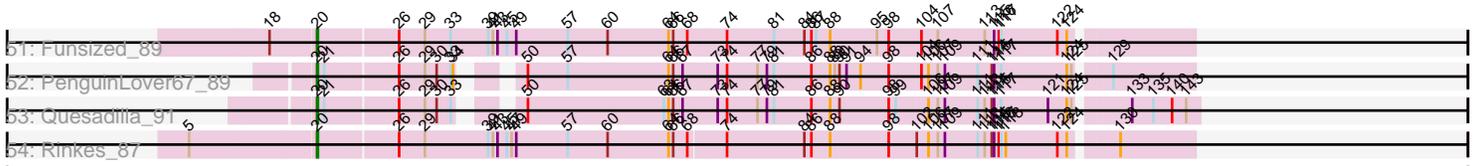


Pham 283741



Pham 283741



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 283741 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283741 has 76 members, 28 are drafts.

Phages represented in each track:

- Track 1 : Causa_155, StAugustine_152
- Track 2 : Indlovu_89
- Track 3 : LilMcDreamy_90
- Track 4 : Apex_93, VioletZ_94, Hydro_92
- Track 5 : Mithril_90
- Track 6 : Waleliano_91
- Track 7 : GinPorsche_91, Poster_90, Antihero_91, Lambano_89, Nanao_91, Hally898_89, Epah_91
- Track 8 : Renkei_91, LittleDigger_91
- Track 9 : Lolalove_94, BrownCNA_92, Prince_92
- Track 10 : JoyceMaria_91
- Track 11 : RawrgerThat_90
- Track 12 : Ahwei_89
- Track 13 : Xincheng_84, Hangman_92
- Track 14 : AlanGrant_92, Vincenzo_91
- Track 15 : Stinger_89
- Track 16 : JAMaL_92
- Track 17 : Zemanar_90, Heath_86, Frederick_93, BobbyK_92
- Track 18 : Cooper_93
- Track 19 : Nigel_88
- Track 20 : Fanaw_87
- Track 21 : Fortunato_89
- Track 22 : Magpie_88
- Track 23 : ChrisnMich_93
- Track 24 : Austelle_92
- Track 25 : Mudslide_93
- Track 26 : JaguarMi_86
- Track 27 : QueenPie_84
- Track 28 : EastView9101_90
- Track 29 : StinkyVeggy_89, KarasumaRum_89
- Track 30 : Mysterious_89
- Track 31 : DigitDog_92
- Track 32 : Acadian_90, Rita130_89
- Track 33 : Phelemich_87, Reprobate_89
- Track 34 : Serendipitous_91
- Track 35 : Bae_89
- Track 36 : Shenyu_91

- Track 37 : SirJeffery_88
- Track 38 : Nehemiah_89
- Track 39 : Rich_88
- Track 40 : Reccee_91
- Track 41 : Suigeneris_91
- Track 42 : Donny_90
- Track 43 : Nangang_91
- Track 44 : Jolie1_092
- Track 45 : 40BC_095, Hosp_090, 39HC_095
- Track 46 : KayaCho_90
- Track 47 : ForDig_92
- Track 48 : Saguaro_84
- Track 49 : Knocker_89
- Track 50 : CRB2_89
- Track 51 : Funsized_89
- Track 52 : PenguinLover67_89
- Track 53 : Quesadilla_91
- Track 54 : Rinkes_87

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

The start number called the most often in the published annotations is 19, it was called in 28 of the 48 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 39HC_095, 40BC_095, Ahwei_89, AlanGrant_92, Antihero_91, Apex_93, Austelle_92, BobbyK_92, BrownCNA_92, ChrisnMich_93, Cooper_93, Epah_91, Fanaw_87, ForDig_92, Fortunato_89, Frederick_93, GinPorsche_91, Hally898_89, Hangman_92, Heath_86, Hosp_090, Hydro_92, Indlovu_89, JAMaL_92, JaguarMi_86, Jolie1_092, JoyceMaria_91, KayaCho_90, Lambano_89, LittleDigger_91, Lolalove_94, Magpie_88, Mithril_90, Mudslide_93, Nanao_91, Nigel_88, Poster_90, Prince_92, QueenPie_84, RawrgerThat_90, Renkei_91, Stinger_89, Vincenzo_91, VioletZ_94, Waleliano_91, Xincheng_84, Zemanar_90,

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

-

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

- Acadian_90, Bae_89, CRB2_89, Causa_155, DigitDog_92, Donny_90, EastView9101_90, Funsized_89, KarasumaRum_89, Knocker_89, LilMcDreamy_90, Mysterious_89, Nangang_91, Nehemiah_89, PenguinLover67_89, Phelemich_87, Quesadilla_91, Reccee_91, Reprobate_89, Rich_88, Rinkes_87, Rita130_89, Saguaro_84, Serendipitous_91, Shenyu_91, SirJeffery_88, StAugustine_152, StinkyVeggy_89, Suigeneris_91,

Summary by start number:

Start 13:

- Found in 2 of 76 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 48

- Called 50.0% of time when present
- Phage (with cluster) where this start called: Saguaro_84 (B7),

Start 14:

- Found in 2 of 76 (2.6%) of genes in pham
- Manual Annotations of this start: 2 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Causa_155 (A1), StAugustine_152 (A1),

Start 19:

- Found in 47 of 76 (61.8%) of genes in pham
- Manual Annotations of this start: 28 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 39HC_095 (B6), 40BC_095 (B6), Ahwei_89 (B4), AlanGrant_92 (B4), Antihero_91 (B4), Apex_93 (B4), Austelle_92 (B4), BobbyK_92 (B4), BrownCNA_92 (B4), ChrisnMich_93 (B4), Cooper_93 (B4), Epah_91 (B4), Fanaw_87 (B4), ForDig_92 (B6), Fortunato_89 (B4), Frederick_93 (B4), GinPorsche_91 (B4), Hally898_89 (B4), Hangman_92 (B4), Heath_86 (B4), Hosp_090 (B6), Hydro_92 (B4), Indlovu_89 (B11), JAMaL_92 (B4), JaguarMi_86 (B4), Jolie1_092 (B6), JoyceMaria_91 (B4), KayaCho_90 (B6), Lambano_89 (B4), LittleDigger_91 (B4), Lolalove_94 (B4), Magpie_88 (B4), Mithril_90 (B4), Mudslide_93 (B4), Nanao_91 (B4), Nigel_88 (B4), Poster_90 (B4), Prince_92 (B4), QueenPie_84 (B4), RawrgerThat_90 (B4), Renkei_91 (B4), Stinger_89 (B4), Vincenzo_91 (B4), VioletZ_94 (B4), Waleliano_91 (B4), Xincheng_84 (B4), Zemanar_90 (B4),

Start 20:

- Found in 27 of 76 (35.5%) of genes in pham
- Manual Annotations of this start: 17 of 48
- Called 96.3% of time when present
- Phage (with cluster) where this start called: Acadian_90 (B5), Bae_89 (B5), CRB2_89 (B9), DigitDog_92 (B5), Donny_90 (B5), EastView9101_90 (B5), Funsized_89 (B9), KarasumaRum_89 (B5), Knocker_89 (B9), LilMcDreamy_90 (B12), Mysterious_89 (B5), Nangang_91 (B5), Nehemiah_89 (B5), PenguinLover67_89 (B9), Phelemich_87 (B5), Quesadilla_91 (B9), Reccee_91 (B5), Reprobate_89 (B5), Rich_88 (B5), Rinkes_87 (B9), Rita130_89 (B5), Serendipitous_91 (B5), Shenyu_91 (B5), SirJeffery_88 (B5), StinkyVeggy_89 (B5), Suigeneris_91 (B5),

Summary by clusters:

There are 8 clusters represented in this pham: A1, B4, B5, B6, B7, B12, B11, B9,

Info for manual annotations of cluster A1:

- Start number 14 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster B11:

- Start number 19 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 20 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B4:

- Start number 19 was manually annotated 25 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 20 was manually annotated 10 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 19 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B7:

- Start number 13 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B9:

- Start number 20 was manually annotated 6 times for cluster B9.

Gene Information:

Gene: 39HC_095 Start: 69471, Stop: 68434, Start Num: 19

Candidate Starts for 39HC_095:

(12, 69552), (Start: 19 @69471 has 28 MA's), (21, 69441), (23, 69399), (26, 69357), (29, 69324), (33, 69291), (40, 69270), (49, 69261), (56, 69198), (64, 69066), (66, 69060), (67, 69048), (79, 68940), (81, 68931), (82, 68910), (86, 68883), (101, 68760), (104, 68745), (119, 68628), (123, 68565), (131, 68493),

Gene: 40BC_095 Start: 69471, Stop: 68434, Start Num: 19

Candidate Starts for 40BC_095:

(12, 69552), (Start: 19 @69471 has 28 MA's), (21, 69441), (23, 69399), (26, 69357), (29, 69324), (33, 69291), (40, 69270), (49, 69261), (56, 69198), (64, 69066), (66, 69060), (67, 69048), (79, 68940), (81, 68931), (82, 68910), (86, 68883), (101, 68760), (104, 68745), (119, 68628), (123, 68565), (131, 68493),

Gene: Acadian_90 Start: 67115, Stop: 66042, Start Num: 20

Candidate Starts for Acadian_90:

(Start: 20 @67115 has 17 MA's), (26, 67019), (29, 66986), (37, 66944), (54, 66863), (64, 66713), (66, 66707), (74, 66641), (91, 66488), (95, 66449), (98, 66434), (104, 66398), (106, 66389), (107, 66377), (109, 66368), (115, 66308), (117, 66299), (124, 66215), (125, 66209), (133, 66146), (142, 66080), (144, 66062),

Gene: Ahwei_89 Start: 67912, Stop: 66866, Start Num: 19

Candidate Starts for Ahwei_89:

(Start: 19 @67912 has 28 MA's), (22, 67858), (23, 67840), (26, 67798), (29, 67765), (30, 67750), (31, 67741), (37, 67723), (49, 67684), (50, 67669), (56, 67621), (61, 67558), (64, 67489), (66, 67483), (67, 67471), (79, 67363), (81, 67354), (82, 67333), (91, 67261), (101, 67183), (102, 67174), (104, 67168), (106, 67159), (109, 67138), (114, 67081), (119, 67051), (120, 67021), (121, 67009), (126, 66979), (131, 66925), (134, 66904), (138, 66871),

Gene: AlanGrant_92 Start: 69472, Stop: 68423, Start Num: 19

Candidate Starts for AlanGrant_92:

(1, 69811), (Start: 19 @69472 has 28 MA's), (22, 69418), (26, 69358), (27, 69352), (29, 69325), (33, 69292), (49, 69247), (50, 69232), (51, 69229), (56, 69184), (58, 69166), (59, 69136), (61, 69121), (63, 69058), (64, 69052), (66, 69046), (67, 69034), (69, 69016), (76, 68947), (77, 68938), (79, 68926), (82, 68896), (91, 68824), (96, 68779), (101, 68746), (104, 68731), (106, 68722), (114, 68644), (120, 68584), (121, 68572), (127, 68530), (132, 68476), (133, 68470), (134, 68461), (137, 68434), (138, 68428),

Gene: Antihero_91 Start: 67837, Stop: 66791, Start Num: 19

Candidate Starts for Antihero_91:

(Start: 19 @67837 has 28 MA's), (22, 67783), (23, 67765), (26, 67723), (29, 67690), (30, 67675), (31, 67666), (37, 67648), (49, 67609), (50, 67594), (56, 67546), (61, 67483), (64, 67414), (66, 67408), (67, 67396), (79, 67288), (81, 67279), (82, 67258), (91, 67186), (101, 67108), (102, 67099), (104, 67093), (106, 67084), (109, 67063), (114, 67006), (119, 66976), (121, 66934), (126, 66904), (131, 66850), (134, 66829), (138, 66796),

Gene: Apex_93 Start: 68952, Stop: 67894, Start Num: 19

Candidate Starts for Apex_93:

(Start: 19 @68952 has 28 MA's), (22, 68898), (26, 68838), (27, 68832), (29, 68805), (30, 68790), (31, 68781), (37, 68763), (49, 68724), (51, 68706), (52, 68703), (56, 68661), (61, 68598), (64, 68529), (67, 68511), (69, 68493), (72, 68475), (79, 68403), (81, 68394), (82, 68373), (96, 68256), (98, 68247), (101, 68223), (102, 68214), (109, 68178), (114, 68121), (119, 68091), (120, 68061), (121, 68049), (123, 68028), (131, 67953), (134, 67932), (138, 67899),

Gene: Austelle_92 Start: 69484, Stop: 68426, Start Num: 19

Candidate Starts for Austelle_92:

(Start: 19 @69484 has 28 MA's), (26, 69370), (27, 69364), (29, 69337), (30, 69322), (31, 69313), (37, 69295), (49, 69256), (51, 69238), (52, 69235), (56, 69193), (61, 69130), (64, 69061), (67, 69043), (69, 69025), (72, 69007), (79, 68935), (81, 68926), (82, 68905), (96, 68788), (98, 68779), (101, 68755), (102, 68746), (106, 68731), (109, 68710), (114, 68653), (119, 68623), (120, 68593), (121, 68581), (123, 68560), (131, 68485), (134, 68464), (137, 68437), (138, 68431),

Gene: Bae_89 Start: 67621, Stop: 66548, Start Num: 20

Candidate Starts for Bae_89:

(9, 67735), (Start: 20 @67621 has 17 MA's), (26, 67525), (29, 67492), (54, 67369), (63, 67225), (64, 67219), (65, 67216), (66, 67213), (74, 67147), (91, 66994), (95, 66955), (98, 66940), (104, 66904), (106, 66895), (107, 66883), (109, 66874), (115, 66814), (117, 66805), (124, 66721), (125, 66715), (133, 66652), (142, 66586), (144, 66568),

Gene: BobbyK_92 Start: 68460, Stop: 67402, Start Num: 19

Candidate Starts for BobbyK_92:

(Start: 19 @68460 has 28 MA's), (22, 68406), (23, 68388), (26, 68346), (27, 68340), (29, 68313), (30, 68298), (31, 68289), (37, 68271), (49, 68232), (51, 68214), (56, 68169), (61, 68106), (64, 68037), (67, 68019), (69, 68001), (72, 67983), (79, 67911), (81, 67902), (82, 67881), (96, 67764), (98, 67755), (101, 67731), (102, 67722), (106, 67707), (109, 67686), (114, 67629), (119, 67599), (120, 67569), (121, 67557), (123, 67536), (131, 67461), (134, 67440), (138, 67407),

Gene: BrownCNA_92 Start: 68899, Stop: 67841, Start Num: 19

Candidate Starts for BrownCNA_92:

(Start: 19 @68899 has 28 MA's), (26, 68785), (27, 68779), (29, 68752), (30, 68737), (31, 68728), (37, 68710), (49, 68671), (51, 68653), (56, 68608), (61, 68545), (64, 68476), (67, 68458), (69, 68440), (71, 68428), (72, 68422), (79, 68350), (81, 68341), (82, 68320), (96, 68203), (98, 68194), (101, 68170), (102, 68161), (106, 68146), (109, 68125), (114, 68068), (119, 68038), (121, 67996), (123, 67975), (131, 67900), (134, 67879), (137, 67852), (138, 67846),

Gene: CRB2_89 Start: 68970, Stop: 67930, Start Num: 20

Candidate Starts for CRB2_89:

(6, 69111), (Start: 20 @68970 has 17 MA's), (21, 68961), (26, 68874), (29, 68841), (30, 68826), (37, 68799), (41, 68781), (43, 68775), (50, 68760), (56, 68712), (63, 68586), (64, 68580), (66, 68574), (67, 68562), (73, 68520), (74, 68508), (77, 68469), (81, 68448), (88, 68376), (89, 68370), (90, 68364), (98,

68301), (104, 68262), (106, 68253), (107, 68241), (109, 68232), (113, 68184), (114, 68175), (115, 68172), (117, 68163), (121, 68103), (124, 68079), (125, 68073), (129, 68037), (133, 68013), (135, 67986), (140, 67962),

Gene: Causa_155 Start: 87546, Stop: 86410, Start Num: 14

Candidate Starts for Causa_155:

(Start: 14 @87546 has 2 MA's), (26, 87360), (29, 87327), (30, 87312), (51, 87231), (57, 87183), (62, 87117), (64, 87054), (90, 86835), (92, 86817), (97, 86775), (98, 86772), (108, 86706), (112, 86655), (114, 86643), (116, 86634), (119, 86613), (124, 86547), (125, 86541), (127, 86535),

Gene: ChrisnMich_93 Start: 67523, Stop: 66477, Start Num: 19

Candidate Starts for ChrisnMich_93:

(15, 67580), (Start: 19 @67523 has 28 MA's), (23, 67451), (26, 67409), (29, 67376), (30, 67361), (31, 67352), (37, 67334), (49, 67295), (50, 67280), (51, 67277), (56, 67232), (61, 67169), (64, 67100), (66, 67094), (67, 67082), (69, 67064), (79, 66974), (81, 66965), (82, 66944), (86, 66917), (91, 66872), (96, 66827), (99, 66809), (101, 66794), (102, 66785), (104, 66779), (106, 66770), (109, 66749), (114, 66692), (119, 66662), (120, 66632), (121, 66620), (131, 66536), (134, 66515), (138, 66482),

Gene: Cooper_93 Start: 68069, Stop: 67017, Start Num: 19

Candidate Starts for Cooper_93:

(15, 68126), (Start: 19 @68069 has 28 MA's), (23, 67997), (26, 67955), (29, 67922), (30, 67907), (31, 67898), (37, 67880), (48, 67838), (49, 67835), (50, 67820), (51, 67817), (56, 67772), (61, 67709), (64, 67640), (66, 67634), (67, 67622), (69, 67604), (79, 67514), (81, 67505), (82, 67484), (86, 67457), (91, 67412), (96, 67367), (99, 67349), (101, 67334), (102, 67325), (104, 67319), (106, 67310), (109, 67289), (114, 67232), (119, 67202), (120, 67172), (121, 67160), (131, 67076), (134, 67055), (138, 67022),

Gene: DigitDog_92 Start: 67609, Stop: 66536, Start Num: 20

Candidate Starts for DigitDog_92:

(2, 67918), (3, 67804), (4, 67762), (Start: 20 @67609 has 17 MA's), (26, 67513), (29, 67480), (37, 67438), (44, 67408), (53, 67366), (54, 67357), (64, 67207), (66, 67201), (74, 67135), (81, 67075), (91, 66982), (92, 66973), (95, 66943), (98, 66928), (102, 66895), (104, 66889), (106, 66880), (107, 66868), (115, 66799), (116, 66793), (117, 66790), (124, 66706), (125, 66700), (129, 66661), (142, 66571), (143, 66568), (144, 66553),

Gene: Donny_90 Start: 66942, Stop: 65869, Start Num: 20

Candidate Starts for Donny_90:

(4, 67095), (Start: 20 @66942 has 17 MA's), (26, 66846), (29, 66813), (37, 66771), (54, 66690), (64, 66540), (66, 66534), (74, 66468), (91, 66315), (95, 66276), (98, 66261), (104, 66225), (106, 66216), (107, 66204), (109, 66195), (115, 66135), (117, 66126), (124, 66042), (125, 66036), (133, 65973), (140, 65922), (142, 65907), (144, 65889),

Gene: EastView9101_90 Start: 67134, Stop: 66061, Start Num: 20

Candidate Starts for EastView9101_90:

(4, 67287), (Start: 20 @67134 has 17 MA's), (26, 67038), (29, 67005), (37, 66963), (54, 66882), (64, 66732), (66, 66726), (74, 66660), (87, 66546), (91, 66507), (95, 66468), (98, 66453), (104, 66417), (106, 66408), (107, 66396), (109, 66387), (115, 66327), (117, 66318), (124, 66234), (125, 66228), (133, 66165), (142, 66099), (144, 66081),

Gene: Epah_91 Start: 67837, Stop: 66791, Start Num: 19

Candidate Starts for Epah_91:

(Start: 19 @67837 has 28 MA's), (22, 67783), (23, 67765), (26, 67723), (29, 67690), (30, 67675), (31, 67666), (37, 67648), (49, 67609), (50, 67594), (56, 67546), (61, 67483), (64, 67414), (66, 67408), (67,

67396), (79, 67288), (81, 67279), (82, 67258), (91, 67186), (101, 67108), (102, 67099), (104, 67093), (106, 67084), (109, 67063), (114, 67006), (119, 66976), (121, 66934), (126, 66904), (131, 66850), (134, 66829), (138, 66796),

Gene: Fanaw_87 Start: 68504, Stop: 67437, Start Num: 19

Candidate Starts for Fanaw_87:

(Start: 19 @68504 has 28 MA's), (26, 68390), (27, 68384), (29, 68357), (30, 68342), (31, 68333), (37, 68315), (38, 68309), (49, 68267), (51, 68249), (56, 68204), (61, 68141), (64, 68072), (67, 68054), (69, 68036), (72, 68018), (79, 67946), (81, 67937), (82, 67916), (96, 67799), (98, 67790), (101, 67766), (102, 67757), (106, 67742), (109, 67721), (114, 67664), (119, 67634), (120, 67604), (121, 67592), (123, 67571), (131, 67496), (134, 67475), (137, 67448), (138, 67442),

Gene: ForDig_92 Start: 68734, Stop: 67697, Start Num: 19

Candidate Starts for ForDig_92:

(12, 68815), (Start: 19 @68734 has 28 MA's), (21, 68704), (23, 68662), (26, 68620), (29, 68587), (33, 68554), (49, 68524), (56, 68461), (64, 68329), (66, 68323), (67, 68311), (79, 68203), (81, 68194), (82, 68173), (85, 68149), (86, 68146), (91, 68101), (101, 68023), (119, 67891), (123, 67828), (131, 67756),

Gene: Fortunato_89 Start: 68261, Stop: 67203, Start Num: 19

Candidate Starts for Fortunato_89:

(Start: 19 @68261 has 28 MA's), (22, 68207), (26, 68147), (27, 68141), (29, 68114), (30, 68099), (31, 68090), (37, 68072), (49, 68033), (51, 68015), (56, 67970), (61, 67907), (64, 67838), (67, 67820), (69, 67802), (72, 67784), (79, 67712), (81, 67703), (82, 67682), (96, 67565), (98, 67556), (101, 67532), (102, 67523), (106, 67508), (109, 67487), (114, 67430), (119, 67400), (120, 67370), (121, 67358), (123, 67337), (131, 67262), (134, 67241), (137, 67214), (138, 67208),

Gene: Frederick_93 Start: 68766, Stop: 67708, Start Num: 19

Candidate Starts for Frederick_93:

(Start: 19 @68766 has 28 MA's), (22, 68712), (23, 68694), (26, 68652), (27, 68646), (29, 68619), (30, 68604), (31, 68595), (37, 68577), (49, 68538), (51, 68520), (56, 68475), (61, 68412), (64, 68343), (67, 68325), (69, 68307), (72, 68289), (79, 68217), (81, 68208), (82, 68187), (96, 68070), (98, 68061), (101, 68037), (102, 68028), (106, 68013), (109, 67992), (114, 67935), (119, 67905), (120, 67875), (121, 67863), (123, 67842), (131, 67767), (134, 67746), (138, 67713),

Gene: Funsized_89 Start: 69514, Stop: 68426, Start Num: 20

Candidate Starts for Funsized_89:

(18, 69568), (Start: 20 @69514 has 17 MA's), (26, 69418), (29, 69385), (33, 69352), (39, 69304), (41, 69298), (43, 69292), (45, 69280), (49, 69268), (57, 69202), (60, 69151), (64, 69073), (66, 69067), (68, 69049), (74, 69001), (81, 68941), (84, 68902), (86, 68893), (87, 68887), (88, 68869), (95, 68809), (98, 68794), (104, 68755), (107, 68734), (113, 68677), (115, 68665), (116, 68659), (117, 68656), (122, 68584), (124, 68572),

Gene: GinPorsche_91 Start: 67834, Stop: 66788, Start Num: 19

Candidate Starts for GinPorsche_91:

(Start: 19 @67834 has 28 MA's), (22, 67780), (23, 67762), (26, 67720), (29, 67687), (30, 67672), (31, 67663), (37, 67645), (49, 67606), (50, 67591), (56, 67543), (61, 67480), (64, 67411), (66, 67405), (67, 67393), (79, 67285), (81, 67276), (82, 67255), (91, 67183), (101, 67105), (102, 67096), (104, 67090), (106, 67081), (109, 67060), (114, 67003), (119, 66973), (121, 66931), (126, 66901), (131, 66847), (134, 66826), (138, 66793),

Gene: Hally898_89 Start: 67674, Stop: 66628, Start Num: 19

Candidate Starts for Hally898_89:

(Start: 19 @67674 has 28 MA's), (22, 67620), (23, 67602), (26, 67560), (29, 67527), (30, 67512), (31, 67503), (37, 67485), (49, 67446), (50, 67431), (56, 67383), (61, 67320), (64, 67251), (66, 67245), (67, 67233), (79, 67125), (81, 67116), (82, 67095), (91, 67023), (101, 66945), (102, 66936), (104, 66930), (106, 66921), (109, 66900), (114, 66843), (119, 66813), (121, 66771), (126, 66741), (131, 66687), (134, 66666), (138, 66633),

Gene: Hangman_92 Start: 69061, Stop: 68003, Start Num: 19

Candidate Starts for Hangman_92:

(Start: 19 @69061 has 28 MA's), (22, 69007), (26, 68947), (27, 68941), (29, 68914), (30, 68899), (31, 68890), (37, 68872), (49, 68833), (51, 68815), (52, 68812), (56, 68770), (61, 68707), (64, 68638), (67, 68620), (69, 68602), (72, 68584), (79, 68512), (81, 68503), (82, 68482), (96, 68365), (98, 68356), (101, 68332), (102, 68323), (106, 68308), (109, 68287), (114, 68230), (119, 68200), (120, 68170), (121, 68158), (123, 68137), (131, 68062), (134, 68041), (137, 68014), (138, 68008),

Gene: Heath_86 Start: 66831, Stop: 65773, Start Num: 19

Candidate Starts for Heath_86:

(Start: 19 @66831 has 28 MA's), (22, 66777), (23, 66759), (26, 66717), (27, 66711), (29, 66684), (30, 66669), (31, 66660), (37, 66642), (49, 66603), (51, 66585), (56, 66540), (61, 66477), (64, 66408), (67, 66390), (69, 66372), (72, 66354), (79, 66282), (81, 66273), (82, 66252), (96, 66135), (98, 66126), (101, 66102), (102, 66093), (106, 66078), (109, 66057), (114, 66000), (119, 65970), (120, 65940), (121, 65928), (123, 65907), (131, 65832), (134, 65811), (138, 65778),

Gene: Hosp_090 Start: 66775, Stop: 65738, Start Num: 19

Candidate Starts for Hosp_090:

(12, 66856), (Start: 19 @66775 has 28 MA's), (21, 66745), (23, 66703), (26, 66661), (29, 66628), (33, 66595), (40, 66574), (49, 66565), (56, 66502), (64, 66370), (66, 66364), (67, 66352), (79, 66244), (81, 66235), (82, 66214), (86, 66187), (101, 66064), (104, 66049), (119, 65932), (123, 65869), (131, 65797),

Gene: Hydro_92 Start: 68848, Stop: 67790, Start Num: 19

Candidate Starts for Hydro_92:

(Start: 19 @68848 has 28 MA's), (22, 68794), (26, 68734), (27, 68728), (29, 68701), (30, 68686), (31, 68677), (37, 68659), (49, 68620), (51, 68602), (52, 68599), (56, 68557), (61, 68494), (64, 68425), (67, 68407), (69, 68389), (72, 68371), (79, 68299), (81, 68290), (82, 68269), (96, 68152), (98, 68143), (101, 68119), (102, 68110), (109, 68074), (114, 68017), (119, 67987), (120, 67957), (121, 67945), (123, 67924), (131, 67849), (134, 67828), (138, 67795),

Gene: Indlovu_89 Start: 68368, Stop: 67307, Start Num: 19

Candidate Starts for Indlovu_89:

(Start: 19 @68368 has 28 MA's), (26, 68242), (27, 68236), (29, 68209), (33, 68176), (37, 68167), (47, 68137), (64, 67936), (66, 67930), (67, 67918), (68, 67912), (74, 67864), (80, 67807), (82, 67783), (86, 67756), (87, 67750), (90, 67720), (91, 67711), (93, 67699), (105, 67615), (114, 67531), (115, 67528), (131, 67366), (134, 67345), (136, 67321), (137, 67318),

Gene: JAMaL_92 Start: 68380, Stop: 67322, Start Num: 19

Candidate Starts for JAMaL_92:

(Start: 19 @68380 has 28 MA's), (22, 68326), (23, 68308), (26, 68266), (29, 68233), (30, 68218), (31, 68209), (37, 68191), (47, 68158), (49, 68152), (51, 68134), (52, 68131), (56, 68089), (61, 68026), (64, 67957), (67, 67939), (69, 67921), (72, 67903), (79, 67831), (81, 67822), (82, 67801), (96, 67684), (98, 67675), (101, 67651), (102, 67642), (106, 67627), (109, 67606), (114, 67549), (119, 67519), (120, 67489), (121, 67477), (123, 67456), (131, 67381), (134, 67360), (138, 67327),

Gene: JaguarMi_86 Start: 68822, Stop: 67764, Start Num: 19

Candidate Starts for JaguarMi_86:

(Start: 19 @68822 has 28 MA's), (22, 68768), (24, 68732), (26, 68708), (27, 68702), (29, 68675), (30, 68660), (31, 68651), (37, 68633), (49, 68594), (51, 68576), (52, 68573), (56, 68531), (61, 68468), (64, 68399), (67, 68381), (69, 68363), (72, 68345), (79, 68273), (81, 68264), (82, 68243), (96, 68126), (98, 68117), (101, 68093), (102, 68084), (106, 68069), (109, 68048), (114, 67991), (119, 67961), (120, 67931), (121, 67919), (123, 67898), (131, 67823), (134, 67802), (137, 67775), (138, 67769),

Gene: Jolie1_092 Start: 68844, Stop: 67807, Start Num: 19

Candidate Starts for Jolie1_092:

(12, 68925), (Start: 19 @68844 has 28 MA's), (21, 68814), (23, 68772), (26, 68730), (29, 68697), (33, 68664), (40, 68643), (56, 68571), (64, 68439), (66, 68433), (67, 68421), (79, 68313), (81, 68304), (82, 68283), (85, 68259), (86, 68256), (91, 68211), (101, 68133), (119, 68001), (123, 67938), (131, 67866),

Gene: JoyceMaria_91 Start: 68893, Stop: 67835, Start Num: 19

Candidate Starts for JoyceMaria_91:

(Start: 19 @68893 has 28 MA's), (22, 68839), (26, 68779), (27, 68773), (29, 68746), (30, 68731), (31, 68722), (37, 68704), (49, 68665), (51, 68647), (52, 68644), (56, 68602), (61, 68539), (64, 68470), (67, 68452), (69, 68434), (72, 68416), (79, 68344), (81, 68335), (82, 68314), (96, 68197), (98, 68188), (101, 68164), (102, 68155), (106, 68140), (109, 68119), (114, 68062), (119, 68032), (121, 67990), (123, 67969), (131, 67894), (134, 67873), (137, 67846), (138, 67840),

Gene: KarasumaRum_89 Start: 67233, Stop: 66154, Start Num: 20

Candidate Starts for KarasumaRum_89:

(Start: 20 @67233 has 17 MA's), (26, 67137), (29, 67104), (37, 67062), (54, 66981), (64, 66831), (66, 66825), (74, 66759), (81, 66699), (83, 66666), (91, 66606), (92, 66597), (95, 66567), (98, 66552), (102, 66519), (104, 66513), (106, 66504), (107, 66492), (115, 66423), (116, 66417), (117, 66414), (124, 66330), (125, 66324), (129, 66285), (142, 66195), (143, 66192), (144, 66177),

Gene: KayaCho_90 Start: 68660, Stop: 67599, Start Num: 19

Candidate Starts for KayaCho_90:

(12, 68741), (Start: 19 @68660 has 28 MA's), (21, 68630), (26, 68546), (29, 68513), (31, 68489), (37, 68471), (42, 68453), (51, 68408), (52, 68405), (56, 68363), (61, 68300), (64, 68231), (66, 68225), (67, 68213), (79, 68105), (81, 68096), (82, 68075), (86, 68048), (91, 68003), (96, 67958), (101, 67925), (119, 67793), (123, 67730), (131, 67658),

Gene: Knocker_89 Start: 68373, Stop: 67315, Start Num: 20

Candidate Starts for Knocker_89:

(18, 68424), (Start: 20 @68373 has 17 MA's), (26, 68277), (28, 68259), (29, 68244), (35, 68202), (37, 68190), (41, 68172), (43, 68166), (50, 68151), (57, 68100), (59, 68055), (60, 68049), (63, 67977), (64, 67971), (66, 67965), (68, 67947), (74, 67902), (79, 67851), (81, 67842), (82, 67821), (84, 67803), (86, 67794), (87, 67788), (88, 67770), (91, 67749), (92, 67740), (98, 67695), (102, 67662), (104, 67656), (107, 67635), (113, 67578), (114, 67569), (115, 67566), (116, 67560), (117, 67557), (122, 67485), (124, 67473), (130, 67419), (142, 67338),

Gene: Lambano_89 Start: 67674, Stop: 66628, Start Num: 19

Candidate Starts for Lambano_89:

(Start: 19 @67674 has 28 MA's), (22, 67620), (23, 67602), (26, 67560), (29, 67527), (30, 67512), (31, 67503), (37, 67485), (49, 67446), (50, 67431), (56, 67383), (61, 67320), (64, 67251), (66, 67245), (67, 67233), (79, 67125), (81, 67116), (82, 67095), (91, 67023), (101, 66945), (102, 66936), (104, 66930), (106, 66921), (109, 66900), (114, 66843), (119, 66813), (121, 66771), (126, 66741), (131, 66687), (134, 66666), (138, 66633),

Gene: LilMcDreamy_90 Start: 68177, Stop: 67116, Start Num: 20

Candidate Starts for LilMcDreamy_90:

(Start: 20 @68177 has 17 MA's), (26, 68081), (29, 68048), (51, 67952), (54, 67925), (56, 67907), (64, 67775), (66, 67769), (78, 67658), (81, 67640), (86, 67592), (91, 67547), (98, 67493), (104, 67454), (106, 67445), (110, 67400), (114, 67367), (115, 67364), (121, 67295), (124, 67271), (125, 67265), (129, 67229), (139, 67160), (140, 67154),

Gene: LittleDigger_91 Start: 67776, Stop: 66730, Start Num: 19

Candidate Starts for LittleDigger_91:

(Start: 19 @67776 has 28 MA's), (22, 67722), (23, 67704), (26, 67662), (29, 67629), (30, 67614), (31, 67605), (37, 67587), (49, 67548), (56, 67485), (61, 67422), (64, 67353), (66, 67347), (67, 67335), (79, 67227), (81, 67218), (82, 67197), (91, 67125), (101, 67047), (102, 67038), (104, 67032), (106, 67023), (109, 67002), (114, 66945), (119, 66915), (121, 66873), (126, 66843), (131, 66789), (134, 66768), (136, 66744), (138, 66735),

Gene: Lolalove_94 Start: 68796, Stop: 67738, Start Num: 19

Candidate Starts for Lolalove_94:

(Start: 19 @68796 has 28 MA's), (26, 68682), (27, 68676), (29, 68649), (30, 68634), (31, 68625), (37, 68607), (49, 68568), (51, 68550), (56, 68505), (61, 68442), (64, 68373), (67, 68355), (69, 68337), (71, 68325), (72, 68319), (79, 68247), (81, 68238), (82, 68217), (96, 68100), (98, 68091), (101, 68067), (102, 68058), (106, 68043), (109, 68022), (114, 67965), (119, 67935), (121, 67893), (123, 67872), (131, 67797), (134, 67776), (137, 67749), (138, 67743),

Gene: Magpie_88 Start: 68610, Stop: 67552, Start Num: 19

Candidate Starts for Magpie_88:

(Start: 19 @68610 has 28 MA's), (22, 68556), (26, 68496), (27, 68490), (29, 68463), (30, 68448), (31, 68439), (37, 68421), (49, 68382), (51, 68364), (56, 68319), (61, 68256), (64, 68187), (67, 68169), (69, 68151), (72, 68133), (79, 68061), (81, 68052), (82, 68031), (90, 67968), (96, 67914), (98, 67905), (101, 67881), (102, 67872), (106, 67857), (109, 67836), (114, 67779), (119, 67749), (120, 67719), (121, 67707), (123, 67686), (131, 67611), (134, 67590), (137, 67563), (138, 67557),

Gene: Mithril_90 Start: 68622, Stop: 67564, Start Num: 19

Candidate Starts for Mithril_90:

(Start: 19 @68622 has 28 MA's), (26, 68508), (27, 68502), (29, 68475), (30, 68460), (31, 68451), (37, 68433), (49, 68394), (51, 68376), (56, 68331), (61, 68268), (64, 68199), (67, 68181), (69, 68163), (72, 68145), (79, 68073), (81, 68064), (82, 68043), (96, 67926), (98, 67917), (101, 67893), (102, 67884), (106, 67869), (109, 67848), (114, 67791), (119, 67761), (120, 67731), (121, 67719), (123, 67698), (131, 67623), (134, 67602), (137, 67575), (138, 67569),

Gene: Mudslide_93 Start: 69027, Stop: 67969, Start Num: 19

Candidate Starts for Mudslide_93:

(Start: 19 @69027 has 28 MA's), (22, 68973), (26, 68913), (27, 68907), (29, 68880), (30, 68865), (31, 68856), (37, 68838), (49, 68799), (51, 68781), (56, 68736), (61, 68673), (64, 68604), (67, 68586), (69, 68568), (71, 68556), (72, 68550), (79, 68478), (81, 68469), (82, 68448), (96, 68331), (98, 68322), (101, 68298), (102, 68289), (106, 68274), (109, 68253), (114, 68196), (119, 68166), (121, 68124), (123, 68103), (131, 68028), (134, 68007), (137, 67980), (138, 67974),

Gene: Mysterious_89 Start: 67024, Stop: 65951, Start Num: 20

Candidate Starts for Mysterious_89:

(Start: 20 @67024 has 17 MA's), (26, 66928), (29, 66895), (37, 66853), (44, 66823), (51, 66799), (54, 66772), (55, 66760), (64, 66622), (66, 66616), (67, 66604), (73, 66562), (81, 66490), (91, 66397), (95, 66358), (98, 66343), (100, 66331), (104, 66304), (106, 66295), (107, 66283), (114, 66217), (115, 66214), (116, 66208), (117, 66205), (124, 66121), (125, 66115), (129, 66079), (141, 65998), (142, 65989), (145, 65968),

Gene: Nanao_91 Start: 67687, Stop: 66641, Start Num: 19

Candidate Starts for Nanao_91:

(Start: 19 @67687 has 28 MA's), (22, 67633), (23, 67615), (26, 67573), (29, 67540), (30, 67525), (31, 67516), (37, 67498), (49, 67459), (50, 67444), (56, 67396), (61, 67333), (64, 67264), (66, 67258), (67, 67246), (79, 67138), (81, 67129), (82, 67108), (91, 67036), (101, 66958), (102, 66949), (104, 66943), (106, 66934), (109, 66913), (114, 66856), (119, 66826), (121, 66784), (126, 66754), (131, 66700), (134, 66679), (138, 66646),

Gene: Nangang_91 Start: 67505, Stop: 66432, Start Num: 20

Candidate Starts for Nangang_91:

(2, 67814), (3, 67700), (4, 67658), (Start: 20 @67505 has 17 MA's), (26, 67409), (29, 67376), (37, 67334), (44, 67304), (53, 67262), (54, 67253), (64, 67103), (66, 67097), (74, 67031), (81, 66971), (91, 66878), (92, 66869), (95, 66839), (98, 66824), (104, 66785), (106, 66776), (107, 66764), (115, 66695), (116, 66689), (117, 66686), (124, 66602), (125, 66596), (129, 66557), (142, 66467), (143, 66464), (144, 66449),

Gene: Nehemiah_89 Start: 66891, Stop: 65818, Start Num: 20

Candidate Starts for Nehemiah_89:

(Start: 20 @66891 has 17 MA's), (26, 66795), (29, 66762), (36, 66723), (37, 66720), (44, 66690), (51, 66666), (54, 66639), (55, 66627), (64, 66489), (66, 66483), (67, 66471), (73, 66429), (81, 66357), (91, 66264), (95, 66225), (98, 66210), (100, 66198), (104, 66171), (106, 66162), (107, 66150), (114, 66084), (115, 66081), (116, 66075), (117, 66072), (124, 65988), (125, 65982), (129, 65946), (141, 65865), (142, 65856), (145, 65835),

Gene: Nigel_88 Start: 67148, Stop: 66102, Start Num: 19

Candidate Starts for Nigel_88:

(Start: 19 @67148 has 28 MA's), (26, 67034), (29, 67001), (30, 66986), (31, 66977), (32, 66971), (37, 66959), (49, 66920), (50, 66905), (51, 66902), (56, 66857), (61, 66794), (64, 66725), (66, 66719), (67, 66707), (79, 66599), (81, 66590), (82, 66569), (86, 66542), (91, 66497), (96, 66452), (101, 66419), (102, 66410), (104, 66404), (106, 66395), (109, 66374), (114, 66317), (119, 66287), (120, 66257), (126, 66215), (131, 66161), (134, 66140), (136, 66116), (138, 66107),

Gene: PenguinLover67_89 Start: 66616, Stop: 65579, Start Num: 20

Candidate Starts for PenguinLover67_89:

(Start: 20 @66616 has 17 MA's), (21, 66607), (26, 66520), (29, 66487), (30, 66472), (33, 66454), (34, 66451), (50, 66406), (57, 66355), (64, 66226), (66, 66220), (67, 66208), (73, 66166), (74, 66154), (77, 66115), (79, 66103), (81, 66094), (86, 66046), (88, 66022), (89, 66016), (90, 66010), (91, 66001), (94, 65983), (98, 65947), (104, 65908), (106, 65899), (107, 65887), (109, 65878), (111, 65839), (114, 65821), (115, 65818), (117, 65809), (124, 65725), (125, 65719), (129, 65683),

Gene: Phelemich_87 Start: 66931, Stop: 65858, Start Num: 20

Candidate Starts for Phelemich_87:

(8, 67057), (11, 67045), (16, 67006), (Start: 20 @66931 has 17 MA's), (26, 66835), (29, 66802), (37, 66760), (44, 66730), (51, 66706), (54, 66679), (64, 66529), (66, 66523), (67, 66511), (73, 66469), (81, 66397), (95, 66265), (98, 66250), (100, 66238), (104, 66211), (106, 66202), (107, 66190), (110, 66157), (114, 66124), (115, 66121), (116, 66115), (117, 66112), (124, 66028), (125, 66022), (129, 65986), (141, 65905), (145, 65875),

Gene: Poster_90 Start: 67688, Stop: 66642, Start Num: 19

Candidate Starts for Poster_90:

(Start: 19 @67688 has 28 MA's), (22, 67634), (23, 67616), (26, 67574), (29, 67541), (30, 67526), (31, 67517), (37, 67499), (49, 67460), (50, 67445), (56, 67397), (61, 67334), (64, 67265), (66, 67259), (67,

67247), (79, 67139), (81, 67130), (82, 67109), (91, 67037), (101, 66959), (102, 66950), (104, 66944), (106, 66935), (109, 66914), (114, 66857), (119, 66827), (121, 66785), (126, 66755), (131, 66701), (134, 66680), (138, 66647),

Gene: Prince_92 Start: 68894, Stop: 67836, Start Num: 19

Candidate Starts for Prince_92:

(Start: 19 @68894 has 28 MA's), (26, 68780), (27, 68774), (29, 68747), (30, 68732), (31, 68723), (37, 68705), (49, 68666), (51, 68648), (56, 68603), (61, 68540), (64, 68471), (67, 68453), (69, 68435), (71, 68423), (72, 68417), (79, 68345), (81, 68336), (82, 68315), (96, 68198), (98, 68189), (101, 68165), (102, 68156), (106, 68141), (109, 68120), (114, 68063), (119, 68033), (121, 67991), (123, 67970), (131, 67895), (134, 67874), (137, 67847), (138, 67841),

Gene: QueenPie_84 Start: 67179, Stop: 66133, Start Num: 19

Candidate Starts for QueenPie_84:

(Start: 19 @67179 has 28 MA's), (22, 67125), (26, 67065), (29, 67032), (30, 67017), (31, 67008), (33, 66999), (37, 66990), (49, 66951), (50, 66936), (51, 66933), (56, 66888), (61, 66825), (64, 66756), (66, 66750), (67, 66738), (79, 66630), (81, 66621), (82, 66600), (91, 66528), (96, 66483), (101, 66450), (102, 66441), (104, 66435), (106, 66426), (109, 66405), (114, 66348), (119, 66318), (120, 66288), (121, 66276), (126, 66246), (131, 66192), (134, 66171), (138, 66138),

Gene: Quesadilla_91 Start: 67907, Stop: 66864, Start Num: 20

Candidate Starts for Quesadilla_91:

(Start: 20 @67907 has 17 MA's), (21, 67898), (26, 67811), (29, 67778), (30, 67763), (33, 67745), (50, 67697), (63, 67523), (64, 67517), (66, 67511), (67, 67499), (73, 67457), (74, 67445), (77, 67406), (79, 67394), (81, 67385), (86, 67337), (88, 67313), (90, 67301), (98, 67238), (99, 67229), (106, 67190), (107, 67178), (109, 67169), (111, 67130), (113, 67121), (114, 67112), (115, 67109), (117, 67100), (121, 67040), (124, 67016), (125, 67010), (133, 66950), (135, 66923), (140, 66899), (143, 66881),

Gene: RawrgerThat_90 Start: 68392, Stop: 67343, Start Num: 19

Candidate Starts for RawrgerThat_90:

(Start: 19 @68392 has 28 MA's), (22, 68338), (23, 68320), (26, 68278), (27, 68272), (29, 68245), (30, 68230), (46, 68176), (50, 68152), (56, 68104), (57, 68101), (58, 68086), (64, 67972), (67, 67954), (69, 67936), (72, 67918), (82, 67816), (96, 67699), (98, 67690), (101, 67666), (102, 67654), (103, 67651), (106, 67639), (114, 67561), (119, 67531), (120, 67501), (123, 67468), (131, 67402), (134, 67381), (138, 67348),

Gene: Reccee_91 Start: 67386, Stop: 66313, Start Num: 20

Candidate Starts for Reccee_91:

(9, 67500), (Start: 13 @67473 has 1 MA's), (Start: 20 @67386 has 17 MA's), (26, 67290), (29, 67257), (37, 67215), (54, 67134), (63, 66990), (64, 66984), (66, 66978), (74, 66912), (91, 66759), (98, 66705), (104, 66669), (106, 66660), (107, 66648), (109, 66639), (115, 66579), (117, 66570), (124, 66486), (125, 66480), (133, 66417), (140, 66366), (142, 66351), (144, 66333),

Gene: Renkei_91 Start: 67770, Stop: 66724, Start Num: 19

Candidate Starts for Renkei_91:

(Start: 19 @67770 has 28 MA's), (22, 67716), (23, 67698), (26, 67656), (29, 67623), (30, 67608), (31, 67599), (37, 67581), (49, 67542), (56, 67479), (61, 67416), (64, 67347), (66, 67341), (67, 67329), (79, 67221), (81, 67212), (82, 67191), (91, 67119), (101, 67041), (102, 67032), (104, 67026), (106, 67017), (109, 66996), (114, 66939), (119, 66909), (121, 66867), (126, 66837), (131, 66783), (134, 66762), (136, 66738), (138, 66729),

Gene: Reprobate_89 Start: 66936, Stop: 65863, Start Num: 20

Candidate Starts for Reprobate_89:

(8, 67062), (11, 67050), (16, 67011), (Start: 20 @66936 has 17 MA's), (26, 66840), (29, 66807), (37, 66765), (44, 66735), (51, 66711), (54, 66684), (64, 66534), (66, 66528), (67, 66516), (73, 66474), (81, 66402), (95, 66270), (98, 66255), (100, 66243), (104, 66216), (106, 66207), (107, 66195), (110, 66162), (114, 66129), (115, 66126), (116, 66120), (117, 66117), (124, 66033), (125, 66027), (129, 65991), (141, 65910), (145, 65880),

Gene: Rich_88 Start: 67174, Stop: 66101, Start Num: 20

Candidate Starts for Rich_88:

(9, 67288), (Start: 20 @67174 has 17 MA's), (26, 67078), (29, 67045), (54, 66922), (63, 66778), (64, 66772), (66, 66766), (74, 66700), (95, 66508), (98, 66493), (104, 66457), (106, 66448), (107, 66436), (109, 66427), (115, 66367), (117, 66358), (124, 66274), (125, 66268), (133, 66205), (142, 66139), (144, 66121),

Gene: Rinkes_87 Start: 68343, Stop: 67258, Start Num: 20

Candidate Starts for Rinkes_87:

(5, 68496), (Start: 20 @68343 has 17 MA's), (26, 68247), (29, 68214), (39, 68133), (41, 68127), (43, 68121), (45, 68109), (47, 68103), (49, 68097), (57, 68031), (60, 67980), (64, 67902), (66, 67896), (68, 67878), (74, 67833), (84, 67734), (86, 67725), (88, 67701), (98, 67626), (102, 67593), (106, 67578), (107, 67566), (109, 67557), (111, 67518), (113, 67509), (114, 67500), (115, 67497), (116, 67491), (117, 67488), (118, 67482), (122, 67416), (124, 67404), (130, 67353),

Gene: Rita130_89 Start: 67088, Stop: 66015, Start Num: 20

Candidate Starts for Rita130_89:

(Start: 20 @67088 has 17 MA's), (26, 66992), (29, 66959), (37, 66917), (54, 66836), (64, 66686), (66, 66680), (74, 66614), (91, 66461), (95, 66422), (98, 66407), (104, 66371), (106, 66362), (107, 66350), (109, 66341), (115, 66281), (117, 66272), (124, 66188), (125, 66182), (133, 66119), (142, 66053), (144, 66035),

Gene: Saguaro_84 Start: 66210, Stop: 65080, Start Num: 13

Candidate Starts for Saguaro_84:

(Start: 13 @66210 has 1 MA's), (17, 66177), (Start: 20 @66126 has 17 MA's), (26, 66030), (29, 65997), (30, 65982), (37, 65955), (43, 65931), (50, 65916), (52, 65910), (56, 65868), (63, 65742), (64, 65736), (66, 65730), (70, 65691), (73, 65676), (77, 65625), (79, 65613), (81, 65604), (88, 65532), (90, 65520), (91, 65511), (98, 65457), (104, 65418), (106, 65409), (107, 65397), (109, 65388), (111, 65349), (113, 65340), (114, 65331), (115, 65328), (117, 65319), (124, 65235), (125, 65229), (128, 65211), (129, 65193), (130, 65184), (135, 65142),

Gene: Serendipitous_91 Start: 67097, Stop: 66021, Start Num: 20

Candidate Starts for Serendipitous_91:

(Start: 20 @67097 has 17 MA's), (26, 67001), (29, 66968), (54, 66845), (63, 66701), (64, 66695), (66, 66689), (74, 66623), (81, 66563), (91, 66470), (94, 66452), (95, 66431), (98, 66416), (99, 66407), (104, 66377), (106, 66368), (107, 66356), (115, 66287), (117, 66278), (124, 66194), (125, 66188), (142, 66062), (144, 66044),

Gene: Shenyu_91 Start: 67503, Stop: 66430, Start Num: 20

Candidate Starts for Shenyu_91:

(2, 67812), (3, 67698), (4, 67656), (Start: 20 @67503 has 17 MA's), (26, 67407), (29, 67374), (37, 67332), (53, 67260), (54, 67251), (63, 67107), (64, 67101), (66, 67095), (74, 67029), (81, 66969), (91, 66876), (92, 66867), (95, 66837), (98, 66822), (104, 66783), (106, 66774), (107, 66762), (115, 66693), (116, 66687), (117, 66684), (124, 66600), (125, 66594), (129, 66555), (142, 66465), (143, 66462), (144, 66447),

Gene: SirJeffery_88 Start: 67154, Stop: 65760, Start Num: 20

Candidate Starts for SirJeffery_88:

(7, 67277), (8, 67271), (Start: 20 @67154 has 17 MA's), (26, 67058), (29, 67025), (37, 66983), (54, 66902), (64, 66752), (66, 66746), (74, 66680), (91, 66527), (98, 66473), (104, 66437), (106, 66428), (107, 66416), (109, 66407), (115, 66347), (117, 66338), (124, 66254), (125, 66248), (133, 66185), (140, 66134), (142, 66119), (146, 66083), (147, 66062), (148, 65954), (149, 65915), (150, 65804), (151, 65783),

Gene: StAugustine_152 Start: 88734, Stop: 87598, Start Num: 14

Candidate Starts for StAugustine_152:

(Start: 14 @88734 has 2 MA's), (26, 88548), (29, 88515), (30, 88500), (51, 88419), (57, 88371), (62, 88305), (64, 88242), (90, 88023), (92, 88005), (97, 87963), (98, 87960), (108, 87894), (112, 87843), (114, 87831), (116, 87822), (119, 87801), (124, 87735), (125, 87729), (127, 87723),

Gene: Stinger_89 Start: 67077, Stop: 66025, Start Num: 19

Candidate Starts for Stinger_89:

(Start: 19 @67077 has 28 MA's), (23, 67005), (25, 66975), (26, 66963), (29, 66930), (30, 66915), (31, 66906), (37, 66888), (49, 66843), (50, 66828), (51, 66825), (56, 66780), (61, 66717), (64, 66648), (66, 66642), (67, 66630), (69, 66612), (79, 66522), (81, 66513), (82, 66492), (86, 66465), (91, 66420), (96, 66375), (101, 66342), (102, 66333), (106, 66318), (109, 66297), (114, 66240), (119, 66210), (120, 66180), (121, 66168), (126, 66138), (131, 66084), (134, 66063), (136, 66039), (138, 66030),

Gene: StinkyVeggy_89 Start: 67233, Stop: 66154, Start Num: 20

Candidate Starts for StinkyVeggy_89:

(Start: 20 @67233 has 17 MA's), (26, 67137), (29, 67104), (37, 67062), (54, 66981), (64, 66831), (66, 66825), (74, 66759), (81, 66699), (83, 66666), (91, 66606), (92, 66597), (95, 66567), (98, 66552), (102, 66519), (104, 66513), (106, 66504), (107, 66492), (115, 66423), (116, 66417), (117, 66414), (124, 66330), (125, 66324), (129, 66285), (142, 66195), (143, 66192), (144, 66177),

Gene: Suigeneris_91 Start: 67330, Stop: 66257, Start Num: 20

Candidate Starts for Suigeneris_91:

(4, 67483), (10, 67441), (Start: 20 @67330 has 17 MA's), (26, 67234), (29, 67201), (37, 67159), (54, 67078), (64, 66928), (66, 66922), (74, 66856), (91, 66703), (95, 66664), (98, 66649), (106, 66604), (107, 66592), (109, 66583), (115, 66523), (117, 66514), (124, 66430), (125, 66424), (133, 66361), (142, 66295), (144, 66277),

Gene: Vincenzo_91 Start: 69502, Stop: 68453, Start Num: 19

Candidate Starts for Vincenzo_91:

(1, 69841), (Start: 19 @69502 has 28 MA's), (22, 69448), (26, 69388), (27, 69382), (29, 69355), (33, 69322), (49, 69277), (50, 69262), (51, 69259), (56, 69214), (58, 69196), (59, 69166), (61, 69151), (63, 69088), (64, 69082), (66, 69076), (67, 69064), (69, 69046), (76, 68977), (77, 68968), (79, 68956), (82, 68926), (91, 68854), (96, 68809), (101, 68776), (104, 68761), (106, 68752), (114, 68674), (120, 68614), (121, 68602), (127, 68560), (132, 68506), (133, 68500), (134, 68491), (137, 68464), (138, 68458),

Gene: VioletZ_94 Start: 69001, Stop: 67943, Start Num: 19

Candidate Starts for VioletZ_94:

(Start: 19 @69001 has 28 MA's), (22, 68947), (26, 68887), (27, 68881), (29, 68854), (30, 68839), (31, 68830), (37, 68812), (49, 68773), (51, 68755), (52, 68752), (56, 68710), (61, 68647), (64, 68578), (67, 68560), (69, 68542), (72, 68524), (79, 68452), (81, 68443), (82, 68422), (96, 68305), (98, 68296), (101, 68272), (102, 68263), (109, 68227), (114, 68170), (119, 68140), (120, 68110), (121, 68098), (123, 68077), (131, 68002), (134, 67981), (138, 67948),

Gene: Waleliano_91 Start: 68648, Stop: 67590, Start Num: 19

Candidate Starts for Waleliano_91:

(Start: 19 @68648 has 28 MA's), (26, 68534), (27, 68528), (29, 68501), (30, 68486), (31, 68477), (37, 68459), (49, 68420), (51, 68402), (56, 68357), (61, 68294), (64, 68225), (67, 68207), (69, 68189), (72, 68171), (75, 68147), (79, 68099), (81, 68090), (82, 68069), (96, 67952), (98, 67943), (101, 67919), (102, 67910), (106, 67895), (109, 67874), (114, 67817), (119, 67787), (121, 67745), (123, 67724), (131, 67649), (134, 67628), (137, 67601), (138, 67595),

Gene: Xincheng_84 Start: 68764, Stop: 67706, Start Num: 19

Candidate Starts for Xincheng_84:

(Start: 19 @68764 has 28 MA's), (22, 68710), (26, 68650), (27, 68644), (29, 68617), (30, 68602), (31, 68593), (37, 68575), (49, 68536), (51, 68518), (52, 68515), (56, 68473), (61, 68410), (64, 68341), (67, 68323), (69, 68305), (72, 68287), (79, 68215), (81, 68206), (82, 68185), (96, 68068), (98, 68059), (101, 68035), (102, 68026), (106, 68011), (109, 67990), (114, 67933), (119, 67903), (120, 67873), (121, 67861), (123, 67840), (131, 67765), (134, 67744), (137, 67717), (138, 67711),

Gene: Zemanar_90 Start: 68665, Stop: 67607, Start Num: 19

Candidate Starts for Zemanar_90:

(Start: 19 @68665 has 28 MA's), (22, 68611), (23, 68593), (26, 68551), (27, 68545), (29, 68518), (30, 68503), (31, 68494), (37, 68476), (49, 68437), (51, 68419), (56, 68374), (61, 68311), (64, 68242), (67, 68224), (69, 68206), (72, 68188), (79, 68116), (81, 68107), (82, 68086), (96, 67969), (98, 67960), (101, 67936), (102, 67927), (106, 67912), (109, 67891), (114, 67834), (119, 67804), (120, 67774), (121, 67762), (123, 67741), (131, 67666), (134, 67645), (138, 67612),