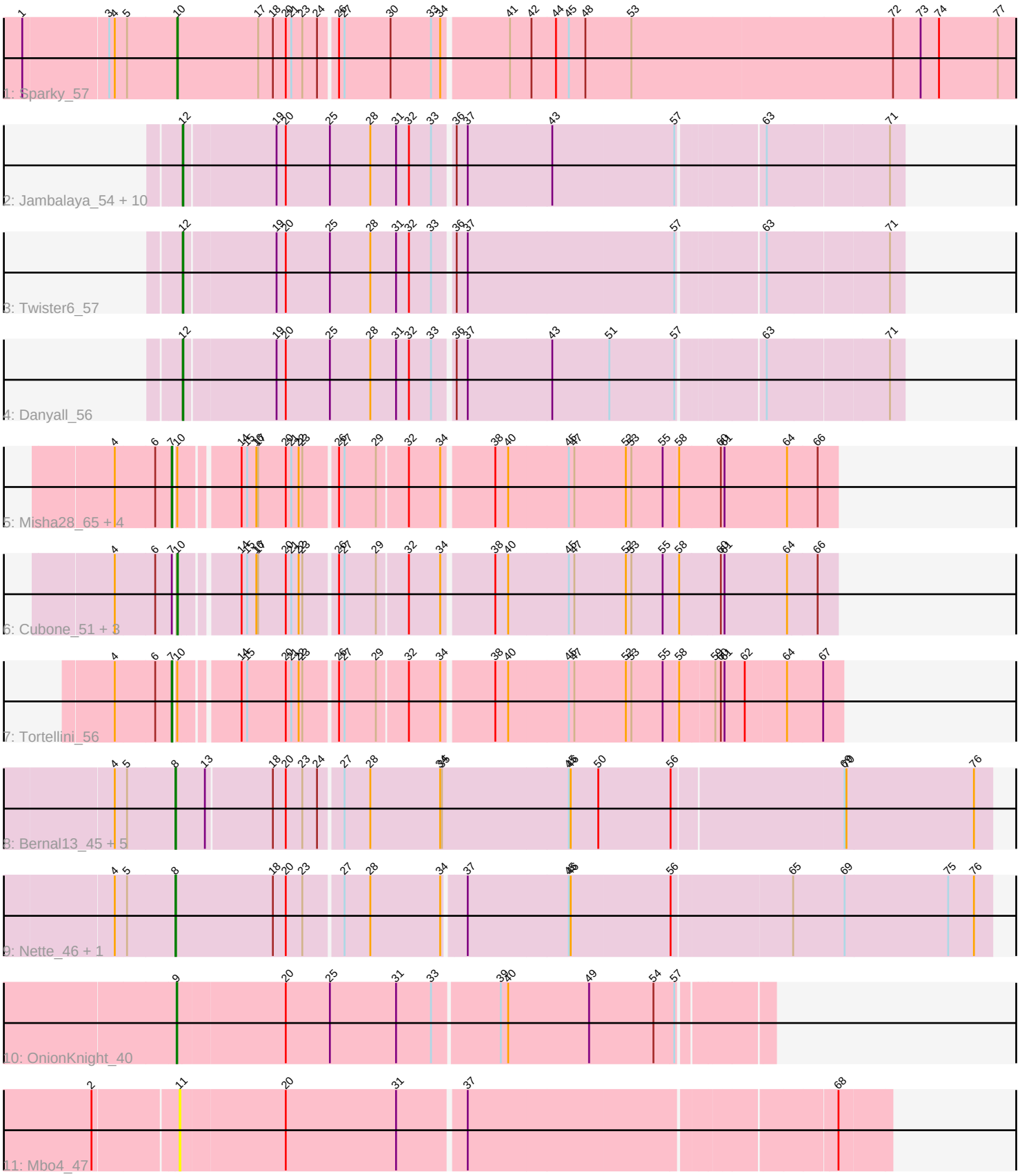
Pham 345967


1: Sparky_57
2: Jambalaya_54 + 10
3: Twister6_57
4: Danyall_56
5: Misha28_65 + 4
6: Cubone_51 + 3
7: Tortellini_56
8: Bernal13_45 + 5
9: Nette_46 + 1
10: OnionKnight_40
11: Mbo4_47

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 345967 Report

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

Pham number 345967 has 34 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Sparky_57
• Track 2 : Jambalaya_54, Shinji_54, Portcullis_56, Sixsevenium_58, Mutzi_54, Savbucketdawg_54, Bakery_60, Fireball_57, Arri_57, JohnPork_57, YungMoney_57
• Track 3 : Twister6_57
• Track 4 : Danyall_56
• Track 5 : Misha28_65, Awesomesauce_67, DocMcStuffins_67, ChickenDinner_67, TootsiePop_65
• Track 6 : Cubone_51, LilSpotty_64, Aloeri_68, Piper2020_68
• Track 7 : Tortellini_56
• Track 8 : Bernal13_45, Whitty_44, RonRayGun_45, Ibrahim_45, ZenTime222_44, Nairb_44
• Track 9 : Nette_46, Mendokysei_43
• Track 10 : OnionKnight_40
• Track 11 : Mbo4_47

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

The start number called the most often in the published annotations is 12, it was called in 10 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arri_57, Bakery_60, Danyall_56, Fireball_57, Jambalaya_54, JohnPork_57, Mutzi_54, Portcullis_56, Savbucketdawg_54, Shinji_54, Sixsevenium_58, Twister6_57, YungMoney_57,

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

Genes that do not have the "Most Annotated" start:
• Aloeri_68, Awesomesauce_67, Bernal13_45, ChickenDinner_67, Cubone_51, DocMcStuffins_67, Ibrahim_45, LilSpotty_64, Mbo4_47, Mendokysei_43, Misha28_65, Nairb_44, Nette_46, OnionKnight_40, Piper2020_68, RonRayGun_45, Sparky_57, TootsiePop_65, Tortellini_56, Whitty_44, ZenTime222_44,

Summary by start number:

Start 7:
• Found in 10 of 34 (29.4%) of genes in pham
• Manual Annotations of this start: 6 of 29
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Awesomesauce_67 (F1), ChickenDinner_67 (F1), DocMcStuffins_67 (F1), Misha28_65 (F1), TootsiePop_65 (F1), Tortellini_56 (P2),

Start 8:
• Found in 8 of 34 (23.5%) of genes in pham
• Manual Annotations of this start: 7 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bernal13_45 (T), Ibrahim_45 (T), Mendokysei_43 (T), Nairb_44 (T), Nette_46 (T), RonRayGun_45 (T), Whitty_44 (T), ZenTime222_44 (T),

Start 9:
• Found in 1 of 34 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: OnionKnight_40 (singleton),

Start 10:
• Found in 11 of 34 (32.4%) of genes in pham
• Manual Annotations of this start: 5 of 29
• Called 45.5% of time when present
• Phage (with cluster) where this start called: Aloeri_68 (F1), Cubone_51 (N), LilSpotty_64 (singleton), Piper2020_68 (F1), Sparky_57 (AF),

Start 11:
• Found in 1 of 34 (2.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mbo4_47 (singleton),

Start 12:
• Found in 13 of 34 (38.2%) of genes in pham
• Manual Annotations of this start: 10 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arri_57 (DC1), Bakery_60 (DC1), Danyall_56 (DC1), Fireball_57 (DC1), Jambalaya_54 (DC1), JohnPork_57 (DC1), Mutzi_54 (DC1), Portcullis_56 (DC1), Savbucketdawg_54 (DC1), Shinji_54 (DC1), Sixsevenium_58 (DC1), Twister6_57 (DC1), YungMoney_57 (DC1),

Summary by clusters:

There are 7 clusters represented in this pham: P2, F1, singleton, AF, N, T, DC1,

Info for manual annotations of cluster AF:
•Start number 10 was manually annotated 1 time for cluster AF.

Info for manual annotations of cluster DC1:
•Start number 12 was manually annotated 10 times for cluster DC1.

Info for manual annotations of cluster F1:
•Start number 7 was manually annotated 5 times for cluster F1.
•Start number 10 was manually annotated 2 times for cluster F1.

Info for manual annotations of cluster N:
•Start number 10 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster P2:
•Start number 7 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster T:
•Start number 8 was manually annotated 7 times for cluster T.

Gene Information:

Gene: Aloeri_68 Start: 41894, Stop: 42907, Start Num: 10
Candidate Starts for Aloeri_68:
(4, 41801), (6, 41864), (Start: 7 @41891 has 6 MA's), (Start: 10 @41894 has 5 MA's), (14, 41978), (15, 41987), (16, 42002), (17, 42005), (20, 42050), (21, 42059), (22, 42071), (23, 42077), (26, 42128), (27, 42137), (29, 42188), (32, 42236), (34, 42287), (38, 42365), (40, 42386), (45, 42482), (47, 42491), (52, 42572), (53, 42581), (55, 42632), (58, 42656), (60, 42719), (61, 42725), (64, 42827), (66, 42875),

Gene: Arri_57 Start: 41875, Stop: 42978, Start Num: 12
Candidate Starts for Arri_57:
(Start: 12 @41875 has 10 MA's), (19, 42019), (20, 42034), (25, 42106), (28, 42172), (31, 42214), (32, 42235), (33, 42271), (36, 42301), (37, 42319), (43, 42454), (57, 42649), (63, 42763), (71, 42955),

Gene: Awesomesauce_67 Start: 40974, Stop: 41990, Start Num: 7
Candidate Starts for Awesomesauce_67:
(4, 40884), (6, 40947), (Start: 7 @40974 has 6 MA's), (Start: 10 @40977 has 5 MA's), (14, 41061), (15, 41070), (16, 41085), (17, 41088), (20, 41133), (21, 41142), (22, 41154), (23, 41160), (26, 41211), (27, 41220), (29, 41271), (32, 41319), (34, 41370), (38, 41448), (40, 41469), (45, 41565), (47, 41574), (52, 41655), (53, 41664), (55, 41715), (58, 41739), (60, 41802), (61, 41808), (64, 41910), (66, 41958),

Gene: Bakery_60 Start: 43055, Stop: 44167, Start Num: 12
Candidate Starts for Bakery_60:
(Start: 12 @43055 has 10 MA's), (19, 43199), (20, 43214), (25, 43286), (28, 43352), (31, 43394), (32, 43415), (33, 43451), (36, 43481), (37, 43499), (43, 43634), (57, 43829), (63, 43952), (71, 44144),

Gene: Bernal13_45 Start: 33424, Stop: 34716, Start Num: 8
Candidate Starts for Bernal13_45:
(4, 33328), (5, 33346), (Start: 8 @33424 has 7 MA's), (13, 33472), (18, 33577), (20, 33598), (23, 33625), (24, 33649), (27, 33685), (28, 33727), (34, 33841), (35, 33844), (45, 34048), (46, 34051), (50, 34096), (56, 34210), (69, 34477), (70, 34480), (76, 34687),

Gene: ChickenDinner_67 Start: 41891, Stop: 42907, Start Num: 7
Candidate Starts for ChickenDinner_67:

(4, 41801), (6, 41864), (Start: 7 @41891 has 6 MA's), (Start: 10 @41894 has 5 MA's), (14, 41978), (15, 41987), (16, 42002), (17, 42005), (20, 42050), (21, 42059), (22, 42071), (23, 42077), (26, 42128), (27, 42137), (29, 42188), (32, 42236), (34, 42287), (38, 42365), (40, 42386), (45, 42482), (47, 42491), (52, 42572), (53, 42581), (55, 42632), (58, 42656), (60, 42719), (61, 42725), (64, 42827), (66, 42875),

Gene: Cubone_51 Start: 32686, Stop: 33699, Start Num: 10
Candidate Starts for Cubone_51:
(4, 32593), (6, 32656), (Start: 7 @32683 has 6 MA's), (Start: 10 @32686 has 5 MA's), (14, 32770), (15, 32779), (16, 32794), (17, 32797), (20, 32842), (21, 32851), (22, 32863), (23, 32869), (26, 32920), (27, 32929), (29, 32980), (32, 33028), (34, 33079), (38, 33157), (40, 33178), (45, 33274), (47, 33283), (52, 33364), (53, 33373), (55, 33424), (58, 33448), (60, 33511), (61, 33517), (64, 33619), (66, 33667),

Gene: Danyall_56 Start: 41716, Stop: 42828, Start Num: 12
Candidate Starts for Danyall_56:
(Start: 12 @41716 has 10 MA's), (19, 41860), (20, 41875), (25, 41947), (28, 42013), (31, 42055), (32, 42076), (33, 42112), (36, 42142), (37, 42160), (43, 42295), (51, 42385), (57, 42490), (63, 42613), (71, 42805),

Gene: DocMcStuffins_67 Start: 41891, Stop: 42907, Start Num: 7
Candidate Starts for DocMcStuffins_67:
(4, 41801), (6, 41864), (Start: 7 @41891 has 6 MA's), (Start: 10 @41894 has 5 MA's), (14, 41978), (15, 41987), (16, 42002), (17, 42005), (20, 42050), (21, 42059), (22, 42071), (23, 42077), (26, 42128), (27, 42137), (29, 42188), (32, 42236), (34, 42287), (38, 42365), (40, 42386), (45, 42482), (47, 42491), (52, 42572), (53, 42581), (55, 42632), (58, 42656), (60, 42719), (61, 42725), (64, 42827), (66, 42875),

Gene: Fireball_57 Start: 42351, Stop: 43463, Start Num: 12
Candidate Starts for Fireball_57:
(Start: 12 @42351 has 10 MA's), (19, 42495), (20, 42510), (25, 42582), (28, 42648), (31, 42690), (32, 42711), (33, 42747), (36, 42777), (37, 42795), (43, 42930), (57, 43125), (63, 43248), (71, 43440),

Gene: Ibrahim_45 Start: 33870, Stop: 35162, Start Num: 8
Candidate Starts for Ibrahim_45:
(4, 33774), (5, 33792), (Start: 8 @33870 has 7 MA's), (13, 33918), (18, 34023), (20, 34044), (23, 34071), (24, 34095), (27, 34131), (28, 34173), (34, 34287), (35, 34290), (45, 34494), (46, 34497), (50, 34542), (56, 34656), (69, 34923), (70, 34926), (76, 35133),

Gene: Jambalaya_54 Start: 41514, Stop: 42626, Start Num: 12
Candidate Starts for Jambalaya_54:
(Start: 12 @41514 has 10 MA's), (19, 41658), (20, 41673), (25, 41745), (28, 41811), (31, 41853), (32, 41874), (33, 41910), (36, 41940), (37, 41958), (43, 42093), (57, 42288), (63, 42411), (71, 42603),

Gene: JohnPork_57 Start: 41527, Stop: 42639, Start Num: 12
Candidate Starts for JohnPork_57:
(Start: 12 @41527 has 10 MA's), (19, 41671), (20, 41686), (25, 41758), (28, 41824), (31, 41866), (32, 41887), (33, 41923), (36, 41953), (37, 41971), (43, 42106), (57, 42301), (63, 42424), (71, 42616),

Gene: LilSpotty_64 Start: 39685, Stop: 40698, Start Num: 10
Candidate Starts for LilSpotty_64:
(4, 39592), (6, 39655), (Start: 7 @39682 has 6 MA's), (Start: 10 @39685 has 5 MA's), (14, 39769), (15, 39778), (16, 39793), (17, 39796), (20, 39841), (21, 39850), (22, 39862), (23, 39868), (26, 39919), (27, 39928), (29, 39979), (32, 40027), (34, 40078), (38, 40156), (40, 40177), (45, 40273), (47, 40282), (52, 40363), (53, 40372), (55, 40423), (58, 40447), (60, 40510), (61, 40516), (64, 40618), (66, 40666),

Gene: Mbo4_47 Start: 36823, Stop: 37917, Start Num: 11
Candidate Starts for Mbo4_47:
(2, 36694), (11, 36823), (20, 36988), (31, 37168), (37, 37273), (68, 37834),

Gene: Mendokysei_43 Start: 32976, Stop: 34268, Start Num: 8
Candidate Starts for Mendokysei_43:
(4, 32880), (5, 32898), (Start: 8 @32976 has 7 MA's), (18, 33135), (20, 33156), (23, 33183), (27, 33243), (28, 33285), (34, 33399), (37, 33432), (45, 33594), (46, 33597), (56, 33756), (65, 33945), (69, 34029), (75, 34197), (76, 34239),

Gene: Misha28_65 Start: 40979, Stop: 41995, Start Num: 7
Candidate Starts for Misha28_65:
(4, 40889), (6, 40952), (Start: 7 @40979 has 6 MA's), (Start: 10 @40982 has 5 MA's), (14, 41066), (15, 41075), (16, 41090), (17, 41093), (20, 41138), (21, 41147), (22, 41159), (23, 41165), (26, 41216), (27, 41225), (29, 41276), (32, 41324), (34, 41375), (38, 41453), (40, 41474), (45, 41570), (47, 41579), (52, 41660), (53, 41669), (55, 41720), (58, 41744), (60, 41807), (61, 41813), (64, 41915), (66, 41963),

Gene: Mutzi_54 Start: 42843, Stop: 43955, Start Num: 12
Candidate Starts for Mutzi_54:
(Start: 12 @42843 has 10 MA's), (19, 42987), (20, 43002), (25, 43074), (28, 43140), (31, 43182), (32, 43203), (33, 43239), (36, 43269), (37, 43287), (43, 43422), (57, 43617), (63, 43740), (71, 43932),

Gene: Nairb_44 Start: 33424, Stop: 34716, Start Num: 8
Candidate Starts for Nairb_44:
(4, 33328), (5, 33346), (Start: 8 @33424 has 7 MA's), (13, 33472), (18, 33577), (20, 33598), (23, 33625), (24, 33649), (27, 33685), (28, 33727), (34, 33841), (35, 33844), (45, 34048), (46, 34051), (50, 34096), (56, 34210), (69, 34477), (70, 34480), (76, 34687),

Gene: Nette_46 Start: 32985, Stop: 34277, Start Num: 8
Candidate Starts for Nette_46:
(4, 32889), (5, 32907), (Start: 8 @32985 has 7 MA's), (18, 33144), (20, 33165), (23, 33192), (27, 33252), (28, 33294), (34, 33408), (37, 33441), (45, 33603), (46, 33606), (56, 33765), (65, 33954), (69, 34038), (75, 34206), (76, 34248),

Gene: OnionKnight_40 Start: 29144, Stop: 30076, Start Num: 9
Candidate Starts for OnionKnight_40:
(Start: 9 @29144 has 1 MA's), (20, 29315), (25, 29387), (31, 29495), (33, 29552), (39, 29657), (40, 29669), (49, 29801), (54, 29906), (57, 29939),

Gene: Piper2020_68 Start: 41877, Stop: 42890, Start Num: 10
Candidate Starts for Piper2020_68:
(4, 41784), (6, 41847), (Start: 7 @41874 has 6 MA's), (Start: 10 @41877 has 5 MA's), (14, 41961), (15, 41970), (16, 41985), (17, 41988), (20, 42033), (21, 42042), (22, 42054), (23, 42060), (26, 42111), (27, 42120), (29, 42171), (32, 42219), (34, 42270), (38, 42348), (40, 42369), (45, 42465), (47, 42474), (52, 42555), (53, 42564), (55, 42615), (58, 42639), (60, 42702), (61, 42708), (64, 42810), (66, 42858),

Gene: Portcullis_56 Start: 41527, Stop: 42639, Start Num: 12
Candidate Starts for Portcullis_56:
(Start: 12 @41527 has 10 MA's), (19, 41671), (20, 41686), (25, 41758), (28, 41824), (31, 41866), (32, 41887), (33, 41923), (36, 41953), (37, 41971), (43, 42106), (57, 42301), (63, 42424), (71, 42616),

Gene: RonRayGun_45 Start: 33870, Stop: 35162, Start Num: 8
Candidate Starts for RonRayGun_45:

(4, 33774), (5, 33792), (Start: 8 @33870 has 7 MA's), (13, 33918), (18, 34023), (20, 34044), (23, 34071), (24, 34095), (27, 34131), (28, 34173), (34, 34287), (35, 34290), (45, 34494), (46, 34497), (50, 34542), (56, 34656), (69, 34923), (70, 34926), (76, 35133),

Gene: Savbucketdawg_54 Start: 41514, Stop: 42626, Start Num: 12
Candidate Starts for Savbucketdawg_54:
(Start: 12 @41514 has 10 MA's), (19, 41658), (20, 41673), (25, 41745), (28, 41811), (31, 41853), (32, 41874), (33, 41910), (36, 41940), (37, 41958), (43, 42093), (57, 42288), (63, 42411), (71, 42603),

Gene: Shinji_54 Start: 41277, Stop: 42389, Start Num: 12
Candidate Starts for Shinji_54:
(Start: 12 @41277 has 10 MA's), (19, 41421), (20, 41436), (25, 41508), (28, 41574), (31, 41616), (32, 41637), (33, 41673), (36, 41703), (37, 41721), (43, 41856), (57, 42051), (63, 42174), (71, 42366),

Gene: Sixsevenium_58 Start: 42284, Stop: 43396, Start Num: 12
Candidate Starts for Sixsevenium_58:
(Start: 12 @42284 has 10 MA's), (19, 42428), (20, 42443), (25, 42515), (28, 42581), (31, 42623), (32, 42644), (33, 42680), (36, 42710), (37, 42728), (43, 42863), (57, 43058), (63, 43181), (71, 43373),

Gene: Sparky_57 Start: 40520, Stop: 41929, Start Num: 10
Candidate Starts for Sparky_57:
(1, 40277), (3, 40412), (4, 40421), (5, 40439), (Start: 10 @40520 has 5 MA's), (17, 40652), (18, 40676), (20, 40697), (21, 40706), (23, 40724), (24, 40748), (26, 40775), (27, 40784), (30, 40859), (33, 40925), (34, 40940), (41, 41042), (42, 41075), (44, 41114), (45, 41135), (48, 41162), (53, 41234), (72, 41654), (73, 41699), (74, 41729), (77, 41825),

Gene: TootsiePop_65 Start: 40979, Stop: 41995, Start Num: 7
Candidate Starts for TootsiePop_65:
(4, 40889), (6, 40952), (Start: 7 @40979 has 6 MA's), (Start: 10 @40982 has 5 MA's), (14, 41066), (15, 41075), (16, 41090), (17, 41093), (20, 41138), (21, 41147), (22, 41159), (23, 41165), (26, 41216), (27, 41225), (29, 41276), (32, 41324), (34, 41375), (38, 41453), (40, 41474), (45, 41570), (47, 41579), (52, 41660), (53, 41669), (55, 41720), (58, 41744), (60, 41807), (61, 41813), (64, 41915), (66, 41963),

Gene: Tortellini_56 Start: 39946, Stop: 40965, Start Num: 7
Candidate Starts for Tortellini_56:
(4, 39856), (6, 39919), (Start: 7 @39946 has 6 MA's), (Start: 10 @39949 has 5 MA's), (14, 40033), (15, 40042), (20, 40105), (21, 40114), (22, 40126), (23, 40132), (26, 40183), (27, 40192), (29, 40243), (32, 40291), (34, 40342), (38, 40420), (40, 40441), (45, 40537), (47, 40546), (52, 40627), (53, 40636), (55, 40687), (58, 40711), (59, 40762), (60, 40771), (61, 40777), (62, 40810), (64, 40876), (67, 40933),

Gene: Twister6_57 Start: 41627, Stop: 42739, Start Num: 12
Candidate Starts for Twister6_57:
(Start: 12 @41627 has 10 MA's), (19, 41771), (20, 41786), (25, 41858), (28, 41924), (31, 41966), (32, 41987), (33, 42023), (36, 42053), (37, 42071), (57, 42401), (63, 42524), (71, 42716),

Gene: Whitty_44 Start: 33425, Stop: 34717, Start Num: 8
Candidate Starts for Whitty_44:
(4, 33329), (5, 33347), (Start: 8 @33425 has 7 MA's), (13, 33473), (18, 33578), (20, 33599), (23, 33626), (24, 33650), (27, 33686), (28, 33728), (34, 33842), (35, 33845), (45, 34049), (46, 34052), (50, 34097), (56, 34211), (69, 34478), (70, 34481), (76, 34688),

Gene: YungMoney_57 Start: 45385, Stop: 46497, Start Num: 12
Candidate Starts for YungMoney_57:

(Start: 12 @45385 has 10 MA's), (19, 45529), (20, 45544), (25, 45616), (28, 45682), (31, 45724), (32, 45745), (33, 45781), (36, 45811), (37, 45829), (43, 45964), (57, 46159), (63, 46282), (71, 46474),

Gene: ZenTime222_44 Start: 33424, Stop: 34716, Start Num: 8
Candidate Starts for ZenTime222_44:
(4, 33328), (5, 33346), (Start: 8 @33424 has 7 MA's), (13, 33472), (18, 33577), (20, 33598), (23, 33625), (24, 33649), (27, 33685), (28, 33727), (34, 33841), (35, 33844), (45, 34048), (46, 34051), (50, 34096), (56, 34210), (69, 34477), (70, 34480), (76, 34687),