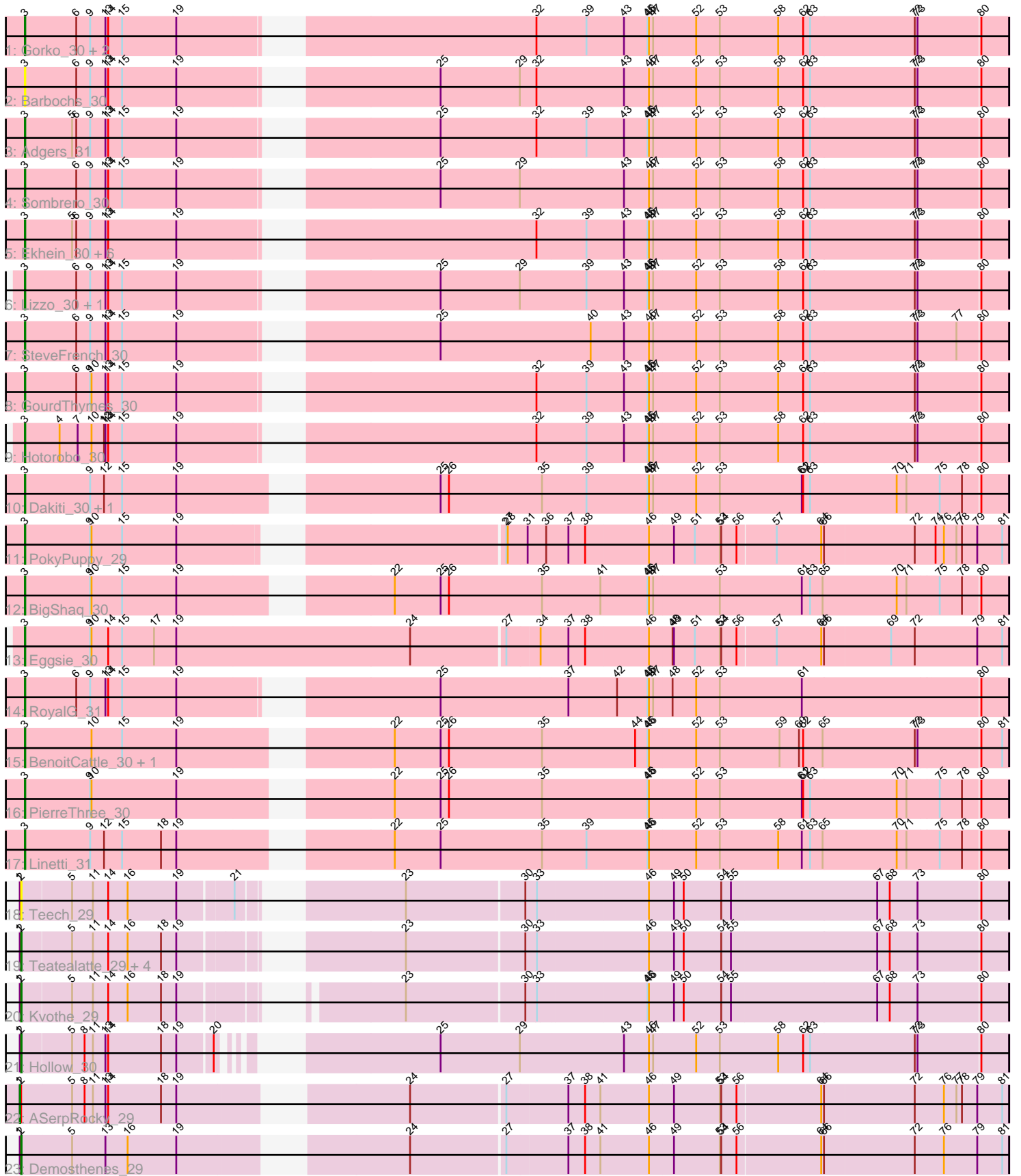


Pham 211236



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 211236 Report

This analysis was run 02/22/25 on database version 588.

Pham number 211236 has 38 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Gorko\_30, Monty\_29, Flakey\_30
- Track 2 : Barbochs\_30
- Track 3 : Adgers\_31
- Track 4 : Sombrero\_30
- Track 5 : Ekhein\_30, RemRem\_31, Worcestershire\_30, Squibbles\_29, Exiguo\_30, Breezic\_30, Sam12\_30
- Track 6 : Lizzo\_30, CathyBurgh\_29
- Track 7 : SteveFrench\_30
- Track 8 : GourdThymes\_30
- Track 9 : Hotorobo\_30
- Track 10 : Dakiti\_30, Chelms\_30
- Track 11 : PokyPuppy\_29
- Track 12 : BigShaq\_30
- Track 13 : Eggsie\_30
- Track 14 : RoyalG\_31
- Track 15 : BenoitCattle\_30, Crete\_31
- Track 16 : PierreThree\_30
- Track 17 : Linetti\_31
- Track 18 : Teech\_29
- Track 19 : Teatealatte\_29, Katyusha\_29, Benczkowski14\_29, Tredge\_29, Niagara\_29
- Track 20 : Kvothe\_29
- Track 21 : Hollow\_30
- Track 22 : ASerpRocky\_29
- Track 23 : Demosthenes\_29

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

The start number called the most often in the published annotations is 3, it was called in 23 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adgers\_31, Barbochs\_30, BenoitCattle\_30, BigShaq\_30, Breezic\_30, CathyBurgh\_29, Chelms\_30, Crete\_31, Dakiti\_30, Eggsie\_30, Ekhein\_30,

Exiguo\_30, Flakey\_30, Gorko\_30, GourdThymes\_30, Hotorobo\_30, Linetti\_31, Lizzo\_30, Monty\_29, PierreThree\_30, PokyPuppy\_29, RemRem\_31, RoyalG\_31, Sam12\_30, Sombrero\_30, Squibbles\_29, SteveFrench\_30, Worcestershire\_30,

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

- 

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

- ASerpRocky\_29, Benczkowski14\_29, Demosthenes\_29, Hollow\_30, Katyusha\_29, Kvothe\_29, Niagara\_29, Teatealatte\_29, Teech\_29, Tredge\_29,

### Summary by start number:

Start 1:

- Found in 10 of 38 ( 26.3% ) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 10.0% of time when present
- Phage (with cluster) where this start called: ASerpRocky\_29 (CS4),

Start 2:

- Found in 10 of 38 ( 26.3% ) of genes in pham
- Manual Annotations of this start: 8 of 32
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Benczkowski14\_29 (CS4), Demosthenes\_29 (CS4), Hollow\_30 (CS4), Katyusha\_29 (CS4), Kvothe\_29 (CS4), Niagara\_29 (CS4), Teatealatte\_29 (CS4), Teech\_29 (CS4), Tredge\_29 (CS4),

Start 3:

- Found in 28 of 38 ( 73.7% ) of genes in pham
- Manual Annotations of this start: 23 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adgers\_31 (CS2), Barbochs\_30 (CS2), BenoitCattle\_30 (CS2), BigShaq\_30 (CS2), Breezic\_30 (CS2), CathyBurgh\_29 (CS2), Chelms\_30 (CS2), Crete\_31 (CS2), Dakiti\_30 (CS2), Eggsie\_30 (CS2), Ekhein\_30 (CS2), Exiguo\_30 (CS2), Flakey\_30 (CS2), Gorko\_30 (CS2), GourdThymes\_30 (CS2), Hotorobo\_30 (CS2), Linetti\_31 (CS2), Lizzo\_30 (CS2), Monty\_29 (CS2), PierreThree\_30 (CS2), PokyPuppy\_29 (CS2), RemRem\_31 (CS2), RoyalG\_31 (CS2), Sam12\_30 (CS2), Sombrero\_30 (CS2), Squibbles\_29 (CS2), SteveFrench\_30 (CS2), Worcestershire\_30 (CS2),

### Summary by clusters:

There are 2 clusters represented in this pham: CS4, CS2,

Info for manual annotations of cluster CS2:

- Start number 3 was manually annotated 23 times for cluster CS2.

Info for manual annotations of cluster CS4:

- Start number 1 was manually annotated 1 time for cluster CS4.
- Start number 2 was manually annotated 8 times for cluster CS4.

### **Gene Information:**

Gene: ASerpRocky\_29 Start: 36764, Stop: 38752, Start Num: 1

Candidate Starts for ASerpRocky\_29:

(Start: 1 @36764 has 1 MA's), (Start: 2 @36767 has 8 MA's), (5, 36872), (8, 36899), (11, 36917), (13, 36944), (14, 36950), (18, 37064), (19, 37097), (24, 37490), (27, 37688), (37, 37817), (38, 37853), (41, 37886), (46, 37988), (49, 38039), (53, 38138), (54, 38141), (56, 38174), (64, 38351), (66, 38357), (72, 38549), (76, 38612), (77, 38639), (78, 38651), (79, 38684), (81, 38738),

Gene: Adgers\_31 Start: 35244, Stop: 37241, Start Num: 3

Candidate Starts for Adgers\_31:

(Start: 3 @35244 has 23 MA's), (5, 35346), (6, 35355), (9, 35385), (13, 35418), (14, 35424), (15, 35454), (19, 35571), (25, 36033), (32, 36240), (39, 36345), (43, 36426), (45, 36477), (46, 36480), (47, 36489), (52, 36579), (53, 36627), (58, 36753), (62, 36807), (63, 36822), (72, 37047), (73, 37053), (80, 37182),

Gene: Barbochs\_30 Start: 35082, Stop: 37079, Start Num: 3

Candidate Starts for Barbochs\_30:

(Start: 3 @35082 has 23 MA's), (6, 35193), (9, 35223), (13, 35256), (14, 35262), (15, 35292), (19, 35409), (25, 35871), (29, 36042), (32, 36078), (43, 36264), (46, 36318), (47, 36327), (52, 36417), (53, 36465), (58, 36591), (62, 36645), (63, 36660), (72, 36885), (73, 36891), (80, 37020),

Gene: Benczkowski14\_29 Start: 36845, Stop: 38806, Start Num: 2

Candidate Starts for Benczkowski14\_29:

(Start: 1 @36842 has 1 MA's), (Start: 2 @36845 has 8 MA's), (5, 36950), (11, 36995), (14, 37028), (16, 37070), (18, 37142), (19, 37175), (23, 37538), (30, 37787), (33, 37811), (46, 38042), (49, 38096), (50, 38117), (54, 38198), (55, 38219), (67, 38531), (68, 38558), (73, 38618), (80, 38747),

Gene: BenoitCattle\_30 Start: 35161, Stop: 37176, Start Num: 3

Candidate Starts for BenoitCattle\_30:

(Start: 3 @35161 has 23 MA's), (10, 35305), (15, 35371), (19, 35488), (22, 35872), (25, 35971), (26, 35989), (35, 36190), (44, 36388), (45, 36415), (46, 36418), (52, 36517), (53, 36565), (59, 36694), (60, 36736), (62, 36745), (65, 36787), (72, 36985), (73, 36991), (80, 37117), (81, 37162),

Gene: BigShaq\_30 Start: 35166, Stop: 37181, Start Num: 3

Candidate Starts for BigShaq\_30:

(Start: 3 @35166 has 23 MA's), (9, 35307), (10, 35310), (15, 35376), (19, 35493), (22, 35877), (25, 35976), (26, 35994), (35, 36195), (41, 36318), (45, 36420), (46, 36423), (47, 36432), (53, 36570), (61, 36747), (63, 36765), (65, 36792), (70, 36951), (71, 36972), (75, 37038), (78, 37086), (80, 37122),

Gene: Breezic\_30 Start: 35096, Stop: 37093, Start Num: 3

Candidate Starts for Breezic\_30:

(Start: 3 @35096 has 23 MA's), (5, 35198), (6, 35207), (9, 35237), (13, 35270), (14, 35276), (19, 35423), (32, 36092), (39, 36197), (43, 36278), (45, 36329), (46, 36332), (47, 36341), (52, 36431), (53, 36479), (58, 36605), (62, 36659), (63, 36674), (72, 36899), (73, 36905), (80, 37034),

Gene: CathyBurgh\_29 Start: 35950, Stop: 37947, Start Num: 3

Candidate Starts for CathyBurgh\_29:

(Start: 3 @35950 has 23 MA's), (6, 36061), (9, 36091), (13, 36124), (14, 36130), (15, 36160), (19, 36277), (25, 36739), (29, 36910), (39, 37051), (43, 37132), (45, 37183), (46, 37186), (47, 37195), (52, 37285), (53, 37333), (58, 37459), (62, 37513), (63, 37528), (72, 37753), (73, 37759), (80, 37888),

Gene: Chelms\_30 Start: 35169, Stop: 37184, Start Num: 3

Candidate Starts for Chelms\_30:

(Start: 3 @35169 has 23 MA's), (9, 35310), (12, 35340), (15, 35379), (19, 35496), (25, 35979), (26, 35997), (35, 36198), (39, 36291), (45, 36423), (46, 36426), (47, 36435), (52, 36525), (53, 36573), (61, 36750), (62, 36753), (63, 36768), (70, 36954), (71, 36975), (75, 37041), (78, 37089), (80, 37125),

Gene: Crete\_31 Start: 35432, Stop: 37447, Start Num: 3

Candidate Starts for Crete\_31:

(Start: 3 @35432 has 23 MA's), (10, 35576), (15, 35642), (19, 35759), (22, 36143), (25, 36242), (26, 36260), (35, 36461), (44, 36659), (45, 36686), (46, 36689), (52, 36788), (53, 36836), (59, 36965), (60, 37007), (62, 37016), (65, 37058), (72, 37256), (73, 37262), (80, 37388), (81, 37433),

Gene: Dakiti\_30 Start: 36037, Stop: 38052, Start Num: 3

Candidate Starts for Dakiti\_30:

(Start: 3 @36037 has 23 MA's), (9, 36178), (12, 36208), (15, 36247), (19, 36364), (25, 36847), (26, 36865), (35, 37066), (39, 37159), (45, 37291), (46, 37294), (47, 37303), (52, 37393), (53, 37441), (61, 37618), (62, 37621), (63, 37636), (70, 37822), (71, 37843), (75, 37909), (78, 37957), (80, 37993),

Gene: Demosthenes\_29 Start: 36740, Stop: 38725, Start Num: 2

Candidate Starts for Demosthenes\_29:

(Start: 1 @36737 has 1 MA's), (Start: 2 @36740 has 8 MA's), (5, 36845), (13, 36917), (16, 36965), (19, 37070), (24, 37463), (27, 37661), (37, 37790), (38, 37826), (41, 37859), (46, 37961), (49, 38012), (53, 38111), (54, 38114), (56, 38147), (64, 38324), (66, 38330), (72, 38522), (76, 38585), (79, 38657), (81, 38711),

Gene: Eggsie\_30 Start: 35106, Stop: 37196, Start Num: 3

Candidate Starts for Eggsie\_30:

(Start: 3 @35106 has 23 MA's), (9, 35247), (10, 35250), (14, 35286), (15, 35316), (17, 35385), (19, 35433), (24, 35934), (27, 36132), (34, 36201), (37, 36261), (38, 36297), (46, 36432), (48, 36480), (49, 36483), (51, 36528), (53, 36582), (54, 36585), (56, 36618), (57, 36699), (64, 36795), (66, 36801), (69, 36942), (72, 36993), (79, 37128), (81, 37182),

Gene: Ekhein\_30 Start: 35078, Stop: 37075, Start Num: 3

Candidate Starts for Ekhein\_30:

(Start: 3 @35078 has 23 MA's), (5, 35180), (6, 35189), (9, 35219), (13, 35252), (14, 35258), (19, 35405), (32, 36074), (39, 36179), (43, 36260), (45, 36311), (46, 36314), (47, 36323), (52, 36413), (53, 36461), (58, 36587), (62, 36641), (63, 36656), (72, 36881), (73, 36887), (80, 37016),

Gene: Exiguo\_30 Start: 35090, Stop: 37087, Start Num: 3

Candidate Starts for Exiguo\_30:

(Start: 3 @35090 has 23 MA's), (5, 35192), (6, 35201), (9, 35231), (13, 35264), (14, 35270), (19, 35417), (32, 36086), (39, 36191), (43, 36272), (45, 36323), (46, 36326), (47, 36335), (52, 36425), (53, 36473), (58, 36599), (62, 36653), (63, 36668), (72, 36893), (73, 36899), (80, 37028),

Gene: Flakey\_30 Start: 35954, Stop: 37951, Start Num: 3

Candidate Starts for Flakey\_30:

(Start: 3 @35954 has 23 MA's), (6, 36065), (9, 36095), (13, 36128), (14, 36134), (15, 36164), (19, 36281), (32, 36950), (39, 37055), (43, 37136), (45, 37187), (46, 37190), (47, 37199), (52, 37289), (53, 37337), (58, 37463), (62, 37517), (63, 37532), (72, 37757), (73, 37763), (80, 37892),

Gene: Gorko\_30 Start: 35082, Stop: 37079, Start Num: 3

Candidate Starts for Gorko\_30:

(Start: 3 @35082 has 23 MA's), (6, 35193), (9, 35223), (13, 35256), (14, 35262), (15, 35292), (19, 35409), (32, 36078), (39, 36183), (43, 36264), (45, 36315), (46, 36318), (47, 36327), (52, 36417), (53,

36465), (58, 36591), (62, 36645), (63, 36660), (72, 36885), (73, 36891), (80, 37020),

Gene: GourdThymes\_30 Start: 35956, Stop: 37953, Start Num: 3

Candidate Starts for GourdThymes\_30:

(Start: 3 @35956 has 23 MA's), (6, 36067), (9, 36097), (10, 36100), (13, 36130), (14, 36136), (15, 36166), (19, 36283), (32, 36952), (39, 37057), (43, 37138), (45, 37189), (46, 37192), (47, 37201), (52, 37291), (53, 37339), (58, 37465), (62, 37519), (63, 37534), (72, 37759), (73, 37765), (80, 37894),

Gene: Hollow\_30 Start: 37188, Stop: 39122, Start Num: 2

Candidate Starts for Hollow\_30:

(Start: 1 @37185 has 1 MA's), (Start: 2 @37188 has 8 MA's), (5, 37293), (8, 37320), (11, 37338), (13, 37365), (14, 37371), (18, 37485), (19, 37518), (20, 37590), (25, 37914), (29, 38085), (43, 38307), (46, 38361), (47, 38370), (52, 38460), (53, 38508), (58, 38634), (62, 38688), (63, 38703), (72, 38928), (73, 38934), (80, 39063),

Gene: Hotorobo\_30 Start: 35961, Stop: 37958, Start Num: 3

Candidate Starts for Hotorobo\_30:

(Start: 3 @35961 has 23 MA's), (4, 36036), (7, 36075), (10, 36105), (12, 36132), (13, 36135), (14, 36141), (15, 36171), (19, 36288), (32, 36957), (39, 37062), (43, 37143), (45, 37194), (46, 37197), (47, 37206), (52, 37296), (53, 37344), (58, 37470), (62, 37524), (63, 37539), (72, 37764), (73, 37770), (80, 37899),

Gene: Katyusha\_29 Start: 36845, Stop: 38806, Start Num: 2

Candidate Starts for Katyusha\_29:

(Start: 1 @36842 has 1 MA's), (Start: 2 @36845 has 8 MA's), (5, 36950), (11, 36995), (14, 37028), (16, 37070), (18, 37142), (19, 37175), (23, 37538), (30, 37787), (33, 37811), (46, 38042), (49, 38096), (50, 38117), (54, 38198), (55, 38219), (67, 38531), (68, 38558), (73, 38618), (80, 38747),

Gene: Kvothe\_29 Start: 36765, Stop: 38705, Start Num: 2

Candidate Starts for Kvothe\_29:

(Start: 1 @36762 has 1 MA's), (Start: 2 @36765 has 8 MA's), (5, 36870), (11, 36915), (14, 36948), (16, 36990), (18, 37062), (19, 37095), (23, 37437), (30, 37686), (33, 37710), (45, 37938), (46, 37941), (49, 37995), (50, 38016), (54, 38097), (55, 38118), (67, 38430), (68, 38457), (73, 38517), (80, 38646),

Gene: Linetti\_31 Start: 36163, Stop: 38178, Start Num: 3

Candidate Starts for Linetti\_31:

(Start: 3 @36163 has 23 MA's), (9, 36304), (12, 36334), (15, 36373), (18, 36457), (19, 36490), (22, 36874), (25, 36973), (35, 37192), (39, 37285), (45, 37417), (46, 37420), (52, 37519), (53, 37567), (58, 37693), (61, 37744), (63, 37762), (65, 37789), (70, 37948), (71, 37969), (75, 38035), (78, 38083), (80, 38119),

Gene: Lizzo\_30 Start: 35950, Stop: 37947, Start Num: 3

Candidate Starts for Lizzo\_30:

(Start: 3 @35950 has 23 MA's), (6, 36061), (9, 36091), (13, 36124), (14, 36130), (15, 36160), (19, 36277), (25, 36739), (29, 36910), (39, 37051), (43, 37132), (45, 37183), (46, 37186), (47, 37195), (52, 37285), (53, 37333), (58, 37459), (62, 37513), (63, 37528), (72, 37753), (73, 37759), (80, 37888),

Gene: Monty\_29 Start: 35100, Stop: 37097, Start Num: 3

Candidate Starts for Monty\_29:

(Start: 3 @35100 has 23 MA's), (6, 35211), (9, 35241), (13, 35274), (14, 35280), (15, 35310), (19, 35427), (32, 36096), (39, 36201), (43, 36282), (45, 36333), (46, 36336), (47, 36345), (52, 36435), (53, 36483), (58, 36609), (62, 36663), (63, 36678), (72, 36903), (73, 36909), (80, 37038),

Gene: Niagara\_29 Start: 36802, Stop: 38763, Start Num: 2

Candidate Starts for Niagara\_29:

(Start: 1 @36799 has 1 MA's), (Start: 2 @36802 has 8 MA's), (5, 36907), (11, 36952), (14, 36985), (16, 37027), (18, 37099), (19, 37132), (23, 37495), (30, 37744), (33, 37768), (46, 37999), (49, 38053), (50, 38074), (54, 38155), (55, 38176), (67, 38488), (68, 38515), (73, 38575), (80, 38704),

Gene: PierreThree\_30 Start: 36034, Stop: 38049, Start Num: 3

Candidate Starts for PierreThree\_30:

(Start: 3 @36034 has 23 MA's), (9, 36175), (10, 36178), (19, 36361), (22, 36745), (25, 36844), (26, 36862), (35, 37063), (45, 37288), (46, 37291), (52, 37390), (53, 37438), (61, 37615), (62, 37618), (63, 37633), (70, 37819), (71, 37840), (75, 37906), (78, 37954), (80, 37990),

Gene: PokyPuppy\_29 Start: 35986, Stop: 37971, Start Num: 3

Candidate Starts for PokyPuppy\_29:

(Start: 3 @35986 has 23 MA's), (9, 36127), (10, 36130), (15, 36196), (19, 36313), (27, 36907), (28, 36910), (31, 36952), (36, 36988), (37, 37036), (38, 37072), (46, 37207), (49, 37258), (51, 37303), (53, 37357), (54, 37360), (56, 37393), (57, 37474), (64, 37570), (66, 37576), (72, 37768), (74, 37813), (76, 37831), (77, 37858), (78, 37870), (79, 37903), (81, 37957),

Gene: RemRem\_31 Start: 35090, Stop: 37087, Start Num: 3

Candidate Starts for RemRem\_31:

(Start: 3 @35090 has 23 MA's), (5, 35192), (6, 35201), (9, 35231), (13, 35264), (14, 35270), (19, 35417), (32, 36086), (39, 36191), (43, 36272), (45, 36323), (46, 36326), (47, 36335), (52, 36425), (53, 36473), (58, 36599), (62, 36653), (63, 36668), (72, 36893), (73, 36899), (80, 37028),

Gene: RoyalG\_31 Start: 35588, Stop: 37576, Start Num: 3

Candidate Starts for RoyalG\_31:

(Start: 3 @35588 has 23 MA's), (6, 35699), (9, 35729), (13, 35762), (14, 35768), (15, 35798), (19, 35915), (25, 36377), (37, 36647), (42, 36752), (45, 36818), (46, 36821), (47, 36830), (48, 36869), (52, 36920), (53, 36968), (61, 37145), (80, 37520),

Gene: Sam12\_30 Start: 35090, Stop: 37087, Start Num: 3

Candidate Starts for Sam12\_30:

(Start: 3 @35090 has 23 MA's), (5, 35192), (6, 35201), (9, 35231), (13, 35264), (14, 35270), (19, 35417), (32, 36086), (39, 36191), (43, 36272), (45, 36323), (46, 36326), (47, 36335), (52, 36425), (53, 36473), (58, 36599), (62, 36653), (63, 36668), (72, 36893), (73, 36899), (80, 37028),

Gene: Sombrero\_30 Start: 35092, Stop: 37089, Start Num: 3

Candidate Starts for Sombrero\_30:

(Start: 3 @35092 has 23 MA's), (6, 35203), (9, 35233), (13, 35266), (14, 35272), (15, 35302), (19, 35419), (25, 35881), (29, 36052), (43, 36274), (46, 36328), (47, 36337), (52, 36427), (53, 36475), (58, 36601), (62, 36655), (63, 36670), (72, 36895), (73, 36901), (80, 37030),

Gene: Squibbles\_29 Start: 35953, Stop: 37950, Start Num: 3

Candidate Starts for Squibbles\_29:

(Start: 3 @35953 has 23 MA's), (5, 36055), (6, 36064), (9, 36094), (13, 36127), (14, 36133), (19, 36280), (32, 36949), (39, 37054), (43, 37135), (45, 37186), (46, 37189), (47, 37198), (52, 37288), (53, 37336), (58, 37462), (62, 37516), (63, 37531), (72, 37756), (73, 37762), (80, 37891),

Gene: SteveFrench\_30 Start: 35811, Stop: 37808, Start Num: 3

Candidate Starts for SteveFrench\_30:

(Start: 3 @35811 has 23 MA's), (6, 35922), (9, 35952), (13, 35985), (14, 35991), (15, 36021), (19, 36138), (25, 36600), (40, 36921), (43, 36993), (46, 37047), (47, 37056), (52, 37146), (53, 37194), (58,

37320), (62, 37374), (63, 37389), (72, 37614), (73, 37620), (77, 37701), (80, 37749),

Gene: Teatealatte\_29 Start: 36747, Stop: 38708, Start Num: 2

Candidate Starts for Teatealatte\_29:

(Start: 1 @36744 has 1 MA's), (Start: 2 @36747 has 8 MA's), (5, 36852), (11, 36897), (14, 36930), (16, 36972), (18, 37044), (19, 37077), (23, 37440), (30, 37689), (33, 37713), (46, 37944), (49, 37998), (50, 38019), (54, 38100), (55, 38121), (67, 38433), (68, 38460), (73, 38520), (80, 38649),

Gene: Teech\_29 Start: 36548, Stop: 38509, Start Num: 2

Candidate Starts for Teech\_29:

(Start: 1 @36545 has 1 MA's), (Start: 2 @36548 has 8 MA's), (5, 36653), (11, 36698), (14, 36731), (16, 36773), (19, 36878), (21, 36986), (23, 37241), (30, 37490), (33, 37514), (46, 37745), (49, 37799), (50, 37820), (54, 37901), (55, 37922), (67, 38234), (68, 38261), (73, 38321), (80, 38450),

Gene: Tredge\_29 Start: 36747, Stop: 38708, Start Num: 2

Candidate Starts for Tredge\_29:

(Start: 1 @36744 has 1 MA's), (Start: 2 @36747 has 8 MA's), (5, 36852), (11, 36897), (14, 36930), (16, 36972), (18, 37044), (19, 37077), (23, 37440), (30, 37689), (33, 37713), (46, 37944), (49, 37998), (50, 38019), (54, 38100), (55, 38121), (67, 38433), (68, 38460), (73, 38520), (80, 38649),

Gene: Worcestershire\_30 Start: 35092, Stop: 37089, Start Num: 3

Candidate Starts for Worcestershire\_30:

(Start: 3 @35092 has 23 MA's), (5, 35194), (6, 35203), (9, 35233), (13, 35266), (14, 35272), (19, 35419), (32, 36088), (39, 36193), (43, 36274), (45, 36325), (46, 36328), (47, 36337), (52, 36427), (53, 36475), (58, 36601), (62, 36655), (63, 36670), (72, 36895), (73, 36901), (80, 37030),