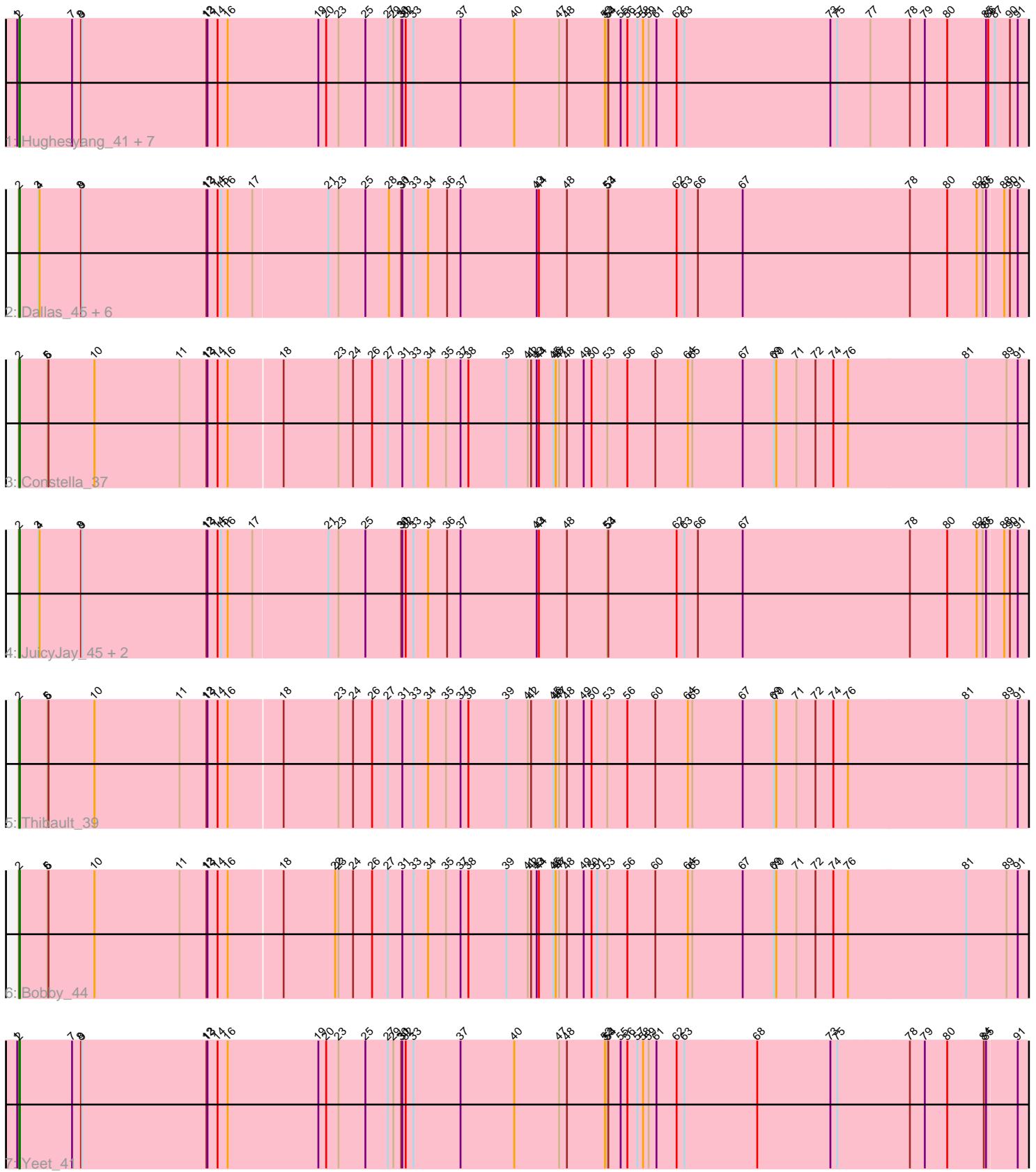


Pham 86659



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 86659 Report

This analysis was run 04/05/24 on database version 557.

Pham number 86659 has 22 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Hughesyang_41, Dove_42, Schatzie_40, Bombitas_39, NihilNomen_42, Ejimix_43, Pound_44, Odette_43
- Track 2 : Dallas_45, Halley_43, EricMillard_43, ThreeRngTarjay_41, Phoebus_42, Kalah2_43, Beem_43
- Track 3 : Constella_37
- Track 4 : JuicyJay_45, Zelink_44, Klein_43
- Track 5 : Thibault_39
- Track 6 : Bobby_44
- Track 7 : Yeet_41

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

The start number called the most often in the published annotations is 2, it was called in 20 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beem_43, Bobby_44, Bombitas_39, Constella_37, Dallas_45, Dove_42, Ejimix_43, EricMillard_43, Halley_43, Hughesyang_41, JuicyJay_45, Kalah2_43, Klein_43, NihilNomen_42, Odette_43, Phoebus_42, Pound_44, Schatzie_40, Thibault_39, ThreeRngTarjay_41, Yeet_41, Zelink_44,

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

-

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

-

Summary by start number:

Start 2:

- Found in 22 of 22 (100.0%) of genes in pham
- Manual Annotations of this start: 20 of 20
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Beem_43 (J), Bobby_44 (J), Bombitas_39 (J), Constella_37 (J), Dallas_45 (J), Dove_42 (J), Ejimix_43 (J), EricMillard_43 (J), Halley_43 (J), Hughesyang_41 (J), JuicyJay_45 (J), Kalah2_43 (J), Klein_43 (J), NihilNomen_42 (J), Odette_43 (J), Phoebus_42 (J), Pound_44 (J), Schatzie_40 (J), Thibault_39 (J), ThreeRngTarjay_41 (J), Yeet_41 (J), Zelink_44 (J),

Summary by clusters:

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 2 was manually annotated 20 times for cluster J.

Gene Information:

Gene: Beem_43 Start: 35007, Stop: 37655, Start Num: 2

Candidate Starts for Beem_43:

(Start: 2 @35007 has 20 MA's), (3, 35058), (4, 35061), (8, 35172), (9, 35175), (12, 35508), (13, 35511), (14, 35538), (15, 35547), (16, 35565), (17, 35631), (21, 35826), (23, 35853), (25, 35925), (28, 35988), (30, 36021), (31, 36024), (33, 36054), (34, 36093), (36, 36144), (37, 36180), (43, 36384), (44, 36390), (48, 36465), (53, 36573), (54, 36576), (62, 36753), (63, 36774), (66, 36810), (67, 36927), (78, 37356), (80, 37455), (82, 37533), (83, 37548), (85, 37557), (88, 37596), (90, 37611), (91, 37632),

Gene: Bobby_44 Start: 35852, Stop: 38575, Start Num: 2

Candidate Starts for Bobby_44:

(Start: 2 @35852 has 20 MA's), (5, 35927), (6, 35930), (10, 36053), (11, 36281), (12, 36353), (13, 36356), (14, 36383), (16, 36410), (18, 36548), (22, 36686), (23, 36695), (24, 36734), (26, 36785), (27, 36827), (31, 36866), (33, 36896), (34, 36935), (35, 36983), (37, 37022), (38, 37043), (39, 37145), (41, 37202), (42, 37211), (43, 37226), (44, 37232), (45, 37271), (46, 37277), (47, 37286), (48, 37307), (49, 37352), (50, 37373), (51, 37388), (53, 37415), (56, 37469), (60, 37544), (64, 37631), (65, 37643), (67, 37778), (69, 37862), (70, 37868), (71, 37922), (72, 37973), (74, 38021), (76, 38060), (81, 38375), (89, 38483), (91, 38513),

Gene: Bombitas_39 Start: 34037, Stop: 36697, Start Num: 2

Candidate Starts for Bombitas_39:

(1, 34031), (Start: 2 @34037 has 20 MA's), (7, 34178), (8, 34202), (9, 34205), (12, 34538), (13, 34541), (14, 34568), (16, 34595), (19, 34835), (20, 34856), (23, 34889), (25, 34961), (27, 35021), (29, 35036), (30, 35057), (31, 35060), (32, 35069), (33, 35090), (37, 35216), (40, 35360), (47, 35480), (48, 35501), (52, 35603), (53, 35609), (54, 35612), (55, 35645), (56, 35663), (57, 35690), (58, 35705), (59, 35720), (61, 35741), (62, 35789), (63, 35810), (73, 36194), (75, 36212), (77, 36296), (78, 36392), (79, 36431), (80, 36491), (85, 36593), (86, 36599), (87, 36617), (90, 36653), (91, 36674),

Gene: Constella_37 Start: 33798, Stop: 36521, Start Num: 2

Candidate Starts for Constella_37:

(Start: 2 @33798 has 20 MA's), (5, 33873), (6, 33876), (10, 33999), (11, 34227), (12, 34299), (13, 34302), (14, 34329), (16, 34356), (18, 34494), (23, 34641), (24, 34680), (26, 34731), (27, 34773), (31, 34812), (33, 34842), (34, 34881), (35, 34929), (37, 34968), (38, 34989), (39, 35091), (41, 35148), (42, 35157), (43, 35172), (44, 35178), (45, 35217), (46, 35223), (47, 35232), (48, 35253), (49, 35298), (50, 35319), (53, 35361), (56, 35415), (60, 35490), (64, 35577), (65, 35589), (67, 35724), (69, 35808), (70, 35814), (71, 35868), (72, 35919), (74, 35967), (76, 36006), (81, 36321), (89, 36429), (91, 36459),

Gene: Dallas_45 Start: 34532, Stop: 37180, Start Num: 2

Candidate Starts for Dallas_45:

(Start: 2 @34532 has 20 MA's), (3, 34583), (4, 34586), (8, 34697), (9, 34700), (12, 35033), (13, 35036), (14, 35063), (15, 35072), (16, 35090), (17, 35156), (21, 35351), (23, 35378), (25, 35450), (28, 35513), (30, 35546), (31, 35549), (33, 35579), (34, 35618), (36, 35669), (37, 35705), (43, 35909), (44, 35915), (48, 35990), (53, 36098), (54, 36101), (62, 36278), (63, 36299), (66, 36335), (67, 36452), (78, 36881), (80, 36980), (82, 37058), (83, 37073), (85, 37082), (88, 37121), (90, 37136), (91, 37157),

Gene: Dove_42 Start: 34036, Stop: 36696, Start Num: 2

Candidate Starts for Dove_42:

(1, 34030), (Start: 2 @34036 has 20 MA's), (7, 34177), (8, 34201), (9, 34204), (12, 34537), (13, 34540), (14, 34567), (16, 34594), (19, 34834), (20, 34855), (23, 34888), (25, 34960), (27, 35020), (29, 35035), (30, 35056), (31, 35059), (32, 35068), (33, 35089), (37, 35215), (40, 35359), (47, 35479), (48, 35500), (52, 35602), (53, 35608), (54, 35611), (55, 35644), (56, 35662), (57, 35689), (58, 35704), (59, 35719), (61, 35740), (62, 35788), (63, 35809), (73, 36193), (75, 36211), (77, 36295), (78, 36391), (79, 36430), (80, 36490), (85, 36592), (86, 36598), (87, 36616), (90, 36652), (91, 36673),

Gene: Ejimix_43 Start: 35766, Stop: 38426, Start Num: 2

Candidate Starts for Ejimix_43:

(1, 35760), (Start: 2 @35766 has 20 MA's), (7, 35907), (8, 35931), (9, 35934), (12, 36267), (13, 36270), (14, 36297), (16, 36324), (19, 36564), (20, 36585), (23, 36618), (25, 36690), (27, 36750), (29, 36765), (30, 36786), (31, 36789), (32, 36798), (33, 36819), (37, 36945), (40, 37089), (47, 37209), (48, 37230), (52, 37332), (53, 37338), (54, 37341), (55, 37374), (56, 37392), (57, 37419), (58, 37434), (59, 37449), (61, 37470), (62, 37518), (63, 37539), (73, 37923), (75, 37941), (77, 38025), (78, 38121), (79, 38160), (80, 38220), (85, 38322), (86, 38328), (87, 38346), (90, 38382), (91, 38403),

Gene: EricMillard_43 Start: 35293, Stop: 37941, Start Num: 2

Candidate Starts for EricMillard_43:

(Start: 2 @35293 has 20 MA's), (3, 35344), (4, 35347), (8, 35458), (9, 35461), (12, 35794), (13, 35797), (14, 35824), (15, 35833), (16, 35851), (17, 35917), (21, 36112), (23, 36139), (25, 36211), (28, 36274), (30, 36307), (31, 36310), (33, 36340), (34, 36379), (36, 36430), (37, 36466), (43, 36670), (44, 36676), (48, 36751), (53, 36859), (54, 36862), (62, 37039), (63, 37060), (66, 37096), (67, 37213), (78, 37642), (80, 37741), (82, 37819), (83, 37834), (85, 37843), (88, 37882), (90, 37897), (91, 37918),

Gene: Halley_43 Start: 35006, Stop: 37654, Start Num: 2

Candidate Starts for Halley_43:

(Start: 2 @35006 has 20 MA's), (3, 35057), (4, 35060), (8, 35171), (9, 35174), (12, 35507), (13, 35510), (14, 35537), (15, 35546), (16, 35564), (17, 35630), (21, 35825), (23, 35852), (25, 35924), (28, 35987), (30, 36020), (31, 36023), (33, 36053), (34, 36092), (36, 36143), (37, 36179), (43, 36383), (44, 36389), (48, 36464), (53, 36572), (54, 36575), (62, 36752), (63, 36773), (66, 36809), (67, 36926), (78, 37355), (80, 37454), (82, 37532), (83, 37547), (85, 37556), (88, 37595), (90, 37610), (91, 37631),

Gene: Hughesyang_41 Start: 34909, Stop: 37569, Start Num: 2

Candidate Starts for Hughesyang_41:

(1, 34903), (Start: 2 @34909 has 20 MA's), (7, 35050), (8, 35074), (9, 35077), (12, 35410), (13, 35413), (14, 35440), (16, 35467), (19, 35707), (20, 35728), (23, 35761), (25, 35833), (27, 35893), (29, 35908), (30, 35929), (31, 35932), (32, 35941), (33, 35962), (37, 36088), (40, 36232), (47, 36352), (48, 36373), (52, 36475), (53, 36481), (54, 36484), (55, 36517), (56, 36535), (57, 36562), (58, 36577), (59, 36592), (61, 36613), (62, 36661), (63, 36682), (73, 37066), (75, 37084), (77, 37168), (78, 37264), (79, 37303), (80, 37363), (85, 37465), (86, 37471), (87, 37489), (90, 37525), (91, 37546),

Gene: JuicyJay_45 Start: 36756, Stop: 39404, Start Num: 2

Candidate Starts for JuicyJay_45:

(Start: 2 @36756 has 20 MA's), (3, 36807), (4, 36810), (8, 36921), (9, 36924), (12, 37257), (13, 37260), (14, 37287), (15, 37296), (16, 37314), (17, 37380), (21, 37575), (23, 37602), (25, 37674), (30, 37770), (31, 37773), (32, 37782), (33, 37803), (34, 37842), (36, 37893), (37, 37929), (43, 38133), (44, 38139), (48, 38214), (53, 38322), (54, 38325), (62, 38502), (63, 38523), (66, 38559), (67, 38676), (78, 39105), (80, 39204), (82, 39282), (83, 39297), (85, 39306), (88, 39345), (90, 39360), (91, 39381),

Gene: Kalah2_43 Start: 35343, Stop: 37991, Start Num: 2

Candidate Starts for Kalah2_43:

(Start: 2 @35343 has 20 MA's), (3, 35394), (4, 35397), (8, 35508), (9, 35511), (12, 35844), (13, 35847), (14, 35874), (15, 35883), (16, 35901), (17, 35967), (21, 36162), (23, 36189), (25, 36261), (28, 36324), (30, 36357), (31, 36360), (33, 36390), (34, 36429), (36, 36480), (37, 36516), (43, 36720), (44, 36726), (48, 36801), (53, 36909), (54, 36912), (62, 37089), (63, 37110), (66, 37146), (67, 37263), (78, 37692), (80, 37791), (82, 37869), (83, 37884), (85, 37893), (88, 37932), (90, 37947), (91, 37968),

Gene: Klein_43 Start: 34567, Stop: 37215, Start Num: 2

Candidate Starts for Klein_43:

(Start: 2 @34567 has 20 MA's), (3, 34618), (4, 34621), (8, 34732), (9, 34735), (12, 35068), (13, 35071), (14, 35098), (15, 35107), (16, 35125), (17, 35191), (21, 35386), (23, 35413), (25, 35485), (30, 35581), (31, 35584), (32, 35593), (33, 35614), (34, 35653), (36, 35704), (37, 35740), (43, 35944), (44, 35950), (48, 36025), (53, 36133), (54, 36136), (62, 36313), (63, 36334), (66, 36370), (67, 36487), (78, 36916), (80, 37015), (82, 37093), (83, 37108), (85, 37117), (88, 37156), (90, 37171), (91, 37192),

Gene: NihilNomen_42 Start: 35057, Stop: 37717, Start Num: 2

Candidate Starts for NihilNomen_42:

(1, 35051), (Start: 2 @35057 has 20 MA's), (7, 35198), (8, 35222), (9, 35225), (12, 35558), (13, 35561), (14, 35588), (16, 35615), (19, 35855), (20, 35876), (23, 35909), (25, 35981), (27, 36041), (29, 36056), (30, 36077), (31, 36080), (32, 36089), (33, 36110), (37, 36236), (40, 36380), (47, 36500), (48, 36521), (52, 36623), (53, 36629), (54, 36632), (55, 36665), (56, 36683), (57, 36710), (58, 36725), (59, 36740), (61, 36761), (62, 36809), (63, 36830), (73, 37214), (75, 37232), (77, 37316), (78, 37412), (79, 37451), (80, 37511), (85, 37613), (86, 37619), (87, 37637), (90, 37673), (91, 37694),

Gene: Odette_43 Start: 34290, Stop: 36950, Start Num: 2

Candidate Starts for Odette_43:

(1, 34284), (Start: 2 @34290 has 20 MA's), (7, 34431), (8, 34455), (9, 34458), (12, 34791), (13, 34794), (14, 34821), (16, 34848), (19, 35088), (20, 35109), (23, 35142), (25, 35214), (27, 35274), (29, 35289), (30, 35310), (31, 35313), (32, 35322), (33, 35343), (37, 35469), (40, 35613), (47, 35733), (48, 35754), (52, 35856), (53, 35862), (54, 35865), (55, 35898), (56, 35916), (57, 35943), (58, 35958), (59, 35973), (61, 35994), (62, 36042), (63, 36063), (73, 36447), (75, 36465), (77, 36549), (78, 36645), (79, 36684), (80, 36744), (85, 36846), (86, 36852), (87, 36870), (90, 36906), (91, 36927),

Gene: Phoebus_42 Start: 35293, Stop: 37941, Start Num: 2

Candidate Starts for Phoebus_42:

(Start: 2 @35293 has 20 MA's), (3, 35344), (4, 35347), (8, 35458), (9, 35461), (12, 35794), (13, 35797), (14, 35824), (15, 35833), (16, 35851), (17, 35917), (21, 36112), (23, 36139), (25, 36211), (28, 36274), (30, 36307), (31, 36310), (33, 36340), (34, 36379), (36, 36430), (37, 36466), (43, 36670), (44, 36676), (48, 36751), (53, 36859), (54, 36862), (62, 37039), (63, 37060), (66, 37096), (67, 37213), (78, 37642), (80, 37741), (82, 37819), (83, 37834), (85, 37843), (88, 37882), (90, 37897), (91, 37918),

Gene: Pound_44 Start: 36288, Stop: 38948, Start Num: 2

Candidate Starts for Pound_44:

(1, 36282), (Start: 2 @36288 has 20 MA's), (7, 36429), (8, 36453), (9, 36456), (12, 36789), (13, 36792), (14, 36819), (16, 36846), (19, 37086), (20, 37107), (23, 37140), (25, 37212), (27, 37272), (29, 37287), (30, 37308), (31, 37311), (32, 37320), (33, 37341), (37, 37467), (40, 37611), (47, 37731), (48,

(37752), (52, 37854), (53, 37860), (54, 37863), (55, 37896), (56, 37914), (57, 37941), (58, 37956), (59, 37971), (61, 37992), (62, 38040), (63, 38061), (73, 38445), (75, 38463), (77, 38547), (78, 38643), (79, 38682), (80, 38742), (85, 38844), (86, 38850), (87, 38868), (90, 38904), (91, 38925),

Gene: Schatzie_40 Start: 34038, Stop: 36698, Start Num: 2

Candidate Starts for Schatzie_40:

(1, 34032), (Start: 2 @34038 has 20 MA's), (7, 34179), (8, 34203), (9, 34206), (12, 34539), (13, 34542), (14, 34569), (16, 34596), (19, 34836), (20, 34857), (23, 34890), (25, 34962), (27, 35022), (29, 35037), (30, 35058), (31, 35061), (32, 35070), (33, 35091), (37, 35217), (40, 35361), (47, 35481), (48, 35502), (52, 35604), (53, 35610), (54, 35613), (55, 35646), (56, 35664), (57, 35691), (58, 35706), (59, 35721), (61, 35742), (62, 35790), (63, 35811), (73, 36195), (75, 36213), (77, 36297), (78, 36393), (79, 36432), (80, 36492), (85, 36594), (86, 36600), (87, 36618), (90, 36654), (91, 36675),

Gene: Thibault_39 Start: 35158, Stop: 37881, Start Num: 2

Candidate Starts for Thibault_39:

(Start: 2 @35158 has 20 MA's), (5, 35233), (6, 35236), (10, 35359), (11, 35587), (12, 35659), (13, 35662), (14, 35689), (16, 35716), (18, 35854), (23, 36001), (24, 36040), (26, 36091), (27, 36133), (31, 36172), (33, 36202), (34, 36241), (35, 36289), (37, 36328), (38, 36349), (39, 36451), (41, 36508), (42, 36517), (45, 36577), (46, 36583), (47, 36592), (48, 36613), (49, 36658), (50, 36679), (53, 36721), (56, 36775), (60, 36850), (64, 36937), (65, 36949), (67, 37084), (69, 37168), (70, 37174), (71, 37228), (72, 37279), (74, 37327), (76, 37366), (81, 37681), (89, 37789), (91, 37819),

Gene: ThreeRngTarjay_41 Start: 35143, Stop: 37791, Start Num: 2

Candidate Starts for ThreeRngTarjay_41:

(Start: 2 @35143 has 20 MA's), (3, 35194), (4, 35197), (8, 35308), (9, 35311), (12, 35644), (13, 35647), (14, 35674), (15, 35683), (16, 35701), (17, 35767), (21, 35962), (23, 35989), (25, 36061), (28, 36124), (30, 36157), (31, 36160), (33, 36190), (34, 36229), (36, 36280), (37, 36316), (43, 36520), (44, 36526), (48, 36601), (53, 36709), (54, 36712), (62, 36889), (63, 36910), (66, 36946), (67, 37063), (78, 37492), (80, 37591), (82, 37669), (83, 37684), (85, 37693), (88, 37732), (90, 37747), (91, 37768),

Gene: Yeet_41 Start: 34283, Stop: 36937, Start Num: 2

Candidate Starts for Yeet_41:

(1, 34277), (Start: 2 @34283 has 20 MA's), (7, 34424), (8, 34448), (9, 34451), (12, 34784), (13, 34787), (14, 34814), (16, 34841), (19, 35081), (20, 35102), (23, 35135), (25, 35207), (27, 35267), (29, 35282), (30, 35303), (31, 35306), (32, 35315), (33, 35336), (37, 35462), (40, 35606), (47, 35726), (48, 35747), (52, 35849), (53, 35855), (54, 35858), (55, 35891), (56, 35909), (57, 35936), (58, 35951), (59, 35966), (61, 35987), (62, 36035), (63, 36056), (68, 36248), (73, 36440), (75, 36458), (78, 36638), (79, 36677), (80, 36737), (84, 36833), (85, 36839), (91, 36914),

Gene: Zelink_44 Start: 36087, Stop: 38735, Start Num: 2

Candidate Starts for Zelink_44:

(Start: 2 @36087 has 20 MA's), (3, 36138), (4, 36141), (8, 36252), (9, 36255), (12, 36588), (13, 36591), (14, 36618), (15, 36627), (16, 36645), (17, 36711), (21, 36906), (23, 36933), (25, 37005), (30, 37101), (31, 37104), (32, 37113), (33, 37134), (34, 37173), (36, 37224), (37, 37260), (43, 37464), (44, 37470), (48, 37545), (53, 37653), (54, 37656), (62, 37833), (63, 37854), (66, 37890), (67, 38007), (78, 38436), (80, 38535), (82, 38613), (83, 38628), (85, 38637), (88, 38676), (90, 38691), (91, 38712),