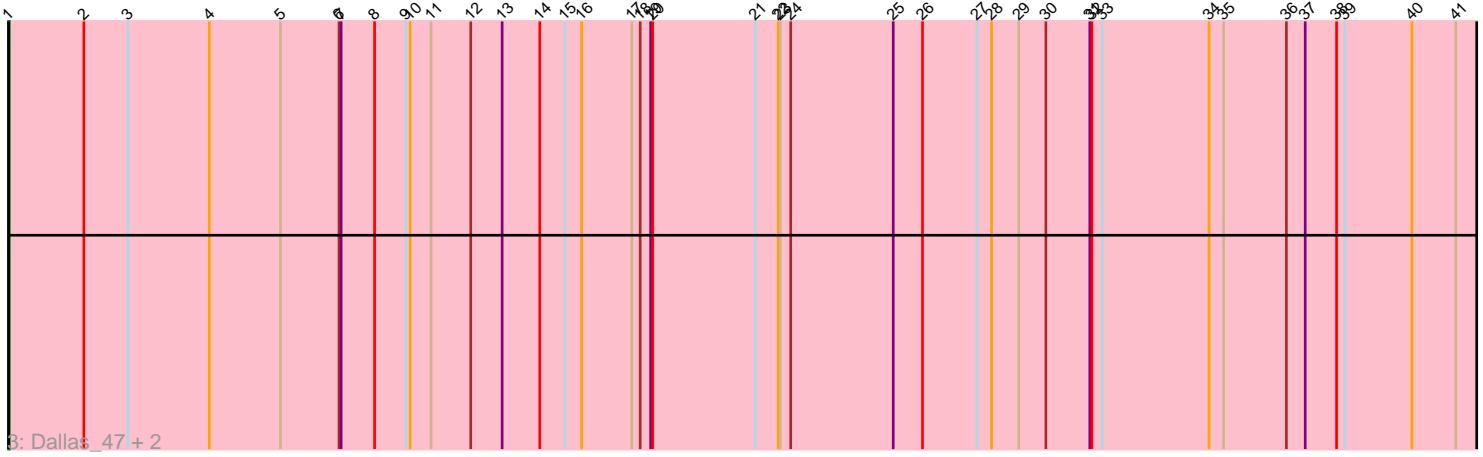
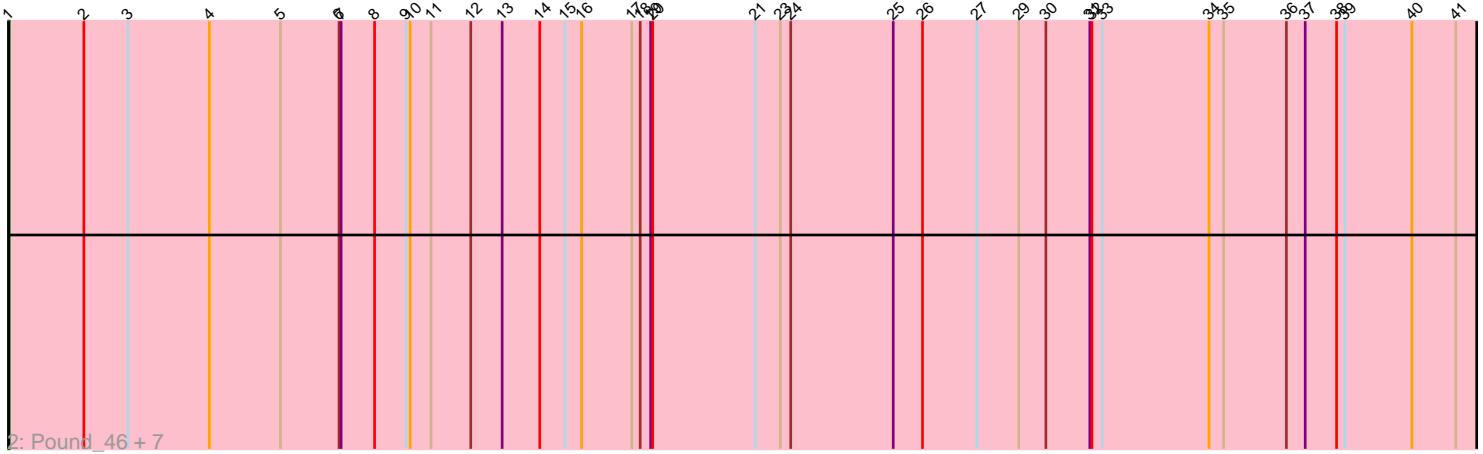
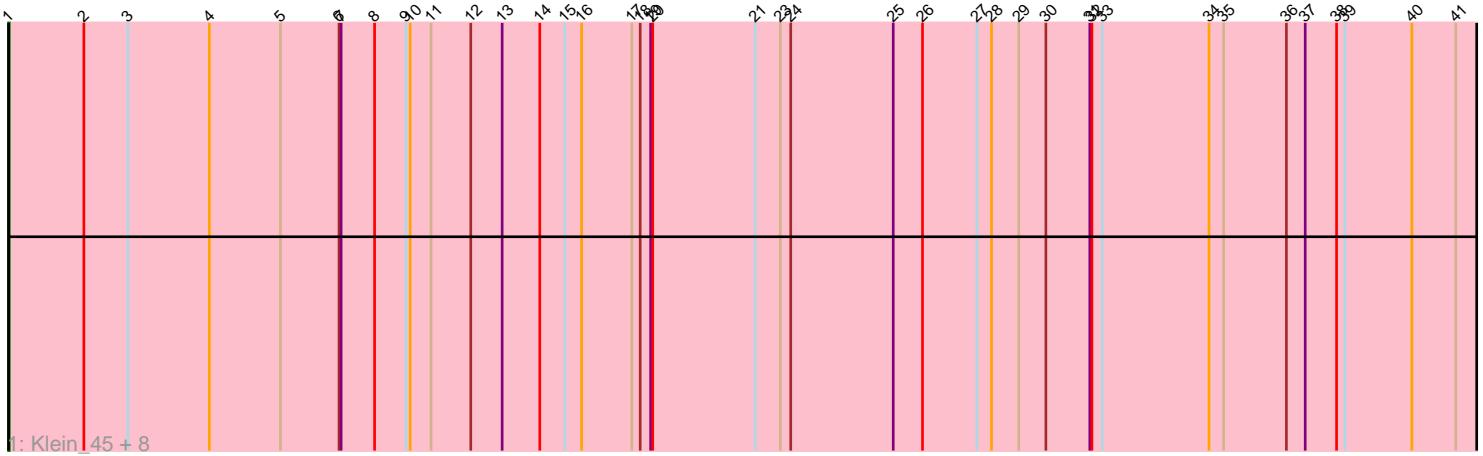


Pham 4125



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 4125 Report

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

Pham number 4125 has 20 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Klein_45, Hughesyang_43, JuicyJay_47, ThreeRngTarjay_43, Halley_45, Yeet_43, EricMillard_45, Phoebus_44, Kalah2_45
- Track 2 : Pound_46, NihilNomen_44, Ejimix_45, Bombitas_41, Dove_44, Schatzie_42, Odette_45, Beem_45
- Track 3 : Dallas_47, Redno2_43, Zelink_46

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

The start number called the most often in the published annotations is 1, it was called in 18 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beem_45, Bombitas_41, Dallas_47, Dove_44, Ejimix_45, EricMillard_45, Halley_45, Hughesyang_43, JuicyJay_47, Kalah2_45, Klein_45, NihilNomen_44, Odette_45, Phoebus_44, Pound_46, Redno2_43, Schatzie_42, ThreeRngTarjay_43, Yeet_43, Zelink_46,

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 1:

- Found in 20 of 20 (100.0%) of genes in pham
- Manual Annotations of this start: 18 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beem_45 (J), Bombitas_41 (J), Dallas_47 (J), Dove_44 (J), Ejimix_45 (J), EricMillard_45 (J), Halley_45 (J), Hughesyang_43 (J), JuicyJay_47 (J), Kalah2_45 (J), Klein_45 (J), NihilNomen_44 (J), Odette_45 (J), Phoebus_44 (J), Pound_46 (J), Redno2_43 (J), Schatzie_42 (J), ThreeRngTarjay_43 (J), Yeet_43 (J), Zelink_46 (J),

Summary by clusters:

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 1 was manually annotated 18 times for cluster J.

Gene Information:

Gene: Beem_45 Start: 38267, Stop: 40387, Start Num: 1

Candidate Starts for Beem_45:

(Start: 1 @38267 has 18 MA's), (2, 38375), (3, 38438), (4, 38555), (5, 38657), (6, 38741), (7, 38744), (8, 38792), (9, 38837), (10, 38843), (11, 38873), (12, 38930), (13, 38975), (14, 39029), (15, 39065), (16, 39089), (17, 39161), (18, 39173), (19, 39188), (20, 39191), (21, 39338), (23, 39374), (24, 39389), (25, 39536), (26, 39578), (27, 39656), (29, 39716), (30, 39755), (31, 39818), (32, 39821), (33, 39836), (34, 39989), (35, 40010), (36, 40100), (37, 40127), (38, 40172), (39, 40184), (40, 40280), (41, 40343),

Gene: Bombitas_41 Start: 37323, Stop: 39443, Start Num: 1

Candidate Starts for Bombitas_41:

(Start: 1 @37323 has 18 MA's), (2, 37431), (3, 37494), (4, 37611), (5, 37713), (6, 37797), (7, 37800), (8, 37848), (9, 37893), (10, 37899), (11, 37929), (12, 37986), (13, 38031), (14, 38085), (15, 38121), (16, 38145), (17, 38217), (18, 38229), (19, 38244), (20, 38247), (21, 38394), (23, 38430), (24, 38445), (25, 38592), (26, 38634), (27, 38712), (29, 38772), (30, 38811), (31, 38874), (32, 38877), (33, 38892), (34, 39045), (35, 39066), (36, 39156), (37, 39183), (38, 39228), (39, 39240), (40, 39336), (41, 39399),

Gene: Dallas_47 Start: 37792, Stop: 39912, Start Num: 1

Candidate Starts for Dallas_47:

(Start: 1 @37792 has 18 MA's), (2, 37900), (3, 37963), (4, 38080), (5, 38182), (6, 38266), (7, 38269), (8, 38317), (9, 38362), (10, 38368), (11, 38398), (12, 38455), (13, 38500), (14, 38554), (15, 38590), (16, 38614), (17, 38686), (18, 38698), (19, 38713), (20, 38716), (21, 38863), (22, 38896), (23, 38899), (24, 38914), (25, 39061), (26, 39103), (27, 39181), (28, 39202), (29, 39241), (30, 39280), (31, 39343), (32, 39346), (33, 39361), (34, 39514), (35, 39535), (36, 39625), (37, 39652), (38, 39697), (39, 39709), (40, 39805), (41, 39868),

Gene: Dove_44 Start: 37322, Stop: 39442, Start Num: 1

Candidate Starts for Dove_44:

(Start: 1 @37322 has 18 MA's), (2, 37430), (3, 37493), (4, 37610), (5, 37712), (6, 37796), (7, 37799), (8, 37847), (9, 37892), (10, 37898), (11, 37928), (12, 37985), (13, 38030), (14, 38084), (15, 38120), (16, 38144), (17, 38216), (18, 38228), (19, 38243), (20, 38246), (21, 38393), (23, 38429), (24, 38444), (25, 38591), (26, 38633), (27, 38711), (29, 38771), (30, 38810), (31, 38873), (32, 38876), (33, 38891), (34, 39044), (35, 39065), (36, 39155), (37, 39182), (38, 39227), (39, 39239), (40, 39335), (41, 39398),

Gene: Ejimix_45 Start: 39052, Stop: 41172, Start Num: 1

Candidate Starts for Ejimix_45:

(Start: 1 @39052 has 18 MA's), (2, 39160), (3, 39223), (4, 39340), (5, 39442), (6, 39526), (7, 39529), (8, 39577), (9, 39622), (10, 39628), (11, 39658), (12, 39715), (13, 39760), (14, 39814), (15, 39850), (16, 39874), (17, 39946), (18, 39958), (19, 39973), (20, 39976), (21, 40123), (23, 40159), (24, 40174), (25, 40321), (26, 40363), (27, 40441), (29, 40501), (30, 40540), (31, 40603), (32, 40606), (33, 40621), (34, 40774), (35, 40795), (36, 40885), (37, 40912), (38, 40957), (39, 40969), (40, 41065), (41, 41128),

Gene: EricMillard_45 Start: 38553, Stop: 40673, Start Num: 1

Candidate Starts for EricMillard_45:

(Start: 1 @38553 has 18 MA's), (2, 38661), (3, 38724), (4, 38841), (5, 38943), (6, 39027), (7, 39030), (8, 39078), (9, 39123), (10, 39129), (11, 39159), (12, 39216), (13, 39261), (14, 39315), (15, 39351), (16, 39375), (17, 39447), (18, 39459), (19, 39474), (20, 39477), (21, 39624), (23, 39660), (24, 39675), (25, 39822), (26, 39864), (27, 39942), (28, 39963), (29, 40002), (30, 40041), (31, 40104), (32, 40107), (33, 40122), (34, 40275), (35, 40296), (36, 40386), (37, 40413), (38, 40458), (39, 40470), (40, 40566), (41, 40629),

Gene: Halley_45 Start: 38266, Stop: 40386, Start Num: 1

Candidate Starts for Halley_45:

(Start: 1 @38266 has 18 MA's), (2, 38374), (3, 38437), (4, 38554), (5, 38656), (6, 38740), (7, 38743), (8, 38791), (9, 38836), (10, 38842), (11, 38872), (12, 38929), (13, 38974), (14, 39028), (15, 39064), (16, 39088), (17, 39160), (18, 39172), (19, 39187), (20, 39190), (21, 39337), (23, 39373), (24, 39388), (25, 39535), (26, 39577), (27, 39655), (28, 39676), (29, 39715), (30, 39754), (31, 39817), (32, 39820), (33, 39835), (34, 39988), (35, 40009), (36, 40099), (37, 40126), (38, 40171), (39, 40183), (40, 40279), (41, 40342),

Gene: Hughesyang_43 Start: 38195, Stop: 40315, Start Num: 1

Candidate Starts for Hughesyang_43:

(Start: 1 @38195 has 18 MA's), (2, 38303), (3, 38366), (4, 38483), (5, 38585), (6, 38669), (7, 38672), (8, 38720), (9, 38765), (10, 38771), (11, 38801), (12, 38858), (13, 38903), (14, 38957), (15, 38993), (16, 39017), (17, 39089), (18, 39101), (19, 39116), (20, 39119), (21, 39266), (23, 39302), (24, 39317), (25, 39464), (26, 39506), (27, 39584), (28, 39605), (29, 39644), (30, 39683), (31, 39746), (32, 39749), (33, 39764), (34, 39917), (35, 39938), (36, 40028), (37, 40055), (38, 40100), (39, 40112), (40, 40208), (41, 40271),

Gene: JuicyJay_47 Start: 40016, Stop: 42136, Start Num: 1

Candidate Starts for JuicyJay_47:

(Start: 1 @40016 has 18 MA's), (2, 40124), (3, 40187), (4, 40304), (5, 40406), (6, 40490), (7, 40493), (8, 40541), (9, 40586), (10, 40592), (11, 40622), (12, 40679), (13, 40724), (14, 40778), (15, 40814), (16, 40838), (17, 40910), (18, 40922), (19, 40937), (20, 40940), (21, 41087), (23, 41123), (24, 41138), (25, 41285), (26, 41327), (27, 41405), (28, 41426), (29, 41465), (30, 41504), (31, 41567), (32, 41570), (33, 41585), (34, 41738), (35, 41759), (36, 41849), (37, 41876), (38, 41921), (39, 41933), (40, 42029), (41, 42092),

Gene: Kalah2_45 Start: 38603, Stop: 40723, Start Num: 1

Candidate Starts for Kalah2_45:

(Start: 1 @38603 has 18 MA's), (2, 38711), (3, 38774), (4, 38891), (5, 38993), (6, 39077), (7, 39080), (8, 39128), (9, 39173), (10, 39179), (11, 39209), (12, 39266), (13, 39311), (14, 39365), (15, 39401), (16, 39425), (17, 39497), (18, 39509), (19, 39524), (20, 39527), (21, 39674), (23, 39710), (24, 39725), (25, 39872), (26, 39914), (27, 39992), (28, 40013), (29, 40052), (30, 40091), (31, 40154), (32, 40157), (33, 40172), (34, 40325), (35, 40346), (36, 40436), (37, 40463), (38, 40508), (39, 40520), (40, 40616), (41, 40679),

Gene: Klein_45 Start: 37827, Stop: 39947, Start Num: 1

Candidate Starts for Klein_45:

(Start: 1 @37827 has 18 MA's), (2, 37935), (3, 37998), (4, 38115), (5, 38217), (6, 38301), (7, 38304), (8, 38352), (9, 38397), (10, 38403), (11, 38433), (12, 38490), (13, 38535), (14, 38589), (15, 38625), (16, 38649), (17, 38721), (18, 38733), (19, 38748), (20, 38751), (21, 38898), (23, 38934), (24, 38949), (25, 39096), (26, 39138), (27, 39216), (28, 39237), (29, 39276), (30, 39315), (31, 39378), (32, 39381), (33, 39396), (34, 39549), (35, 39570), (36, 39660), (37, 39687), (38, 39732), (39, 39744), (40, 39840), (41, 39903),

Gene: NihilNomen_44 Start: 38343, Stop: 40463, Start Num: 1

Candidate Starts for NihilNomen_44:

(Start: 1 @38343 has 18 MA's), (2, 38451), (3, 38514), (4, 38631), (5, 38733), (6, 38817), (7, 38820), (8, 38868), (9, 38913), (10, 38919), (11, 38949), (12, 39006), (13, 39051), (14, 39105), (15, 39141), (16, 39165), (17, 39237), (18, 39249), (19, 39264), (20, 39267), (21, 39414), (23, 39450), (24, 39465), (25, 39612), (26, 39654), (27, 39732), (29, 39792), (30, 39831), (31, 39894), (32, 39897), (33, 39912), (34, 40065), (35, 40086), (36, 40176), (37, 40203), (38, 40248), (39, 40260), (40, 40356), (41, 40419),

Gene: Odette_45 Start: 37576, Stop: 39696, Start Num: 1

Candidate Starts for Odette_45:

(Start: 1 @37576 has 18 MA's), (2, 37684), (3, 37747), (4, 37864), (5, 37966), (6, 38050), (7, 38053), (8, 38101), (9, 38146), (10, 38152), (11, 38182), (12, 38239), (13, 38284), (14, 38338), (15, 38374), (16, 38398), (17, 38470), (18, 38482), (19, 38497), (20, 38500), (21, 38647), (23, 38683), (24, 38698), (25, 38845), (26, 38887), (27, 38965), (29, 39025), (30, 39064), (31, 39127), (32, 39130), (33, 39145), (34, 39298), (35, 39319), (36, 39409), (37, 39436), (38, 39481), (39, 39493), (40, 39589), (41, 39652),

Gene: Phoebus_44 Start: 38553, Stop: 40673, Start Num: 1

Candidate Starts for Phoebus_44:

(Start: 1 @38553 has 18 MA's), (2, 38661), (3, 38724), (4, 38841), (5, 38943), (6, 39027), (7, 39030), (8, 39078), (9, 39123), (10, 39129), (11, 39159), (12, 39216), (13, 39261), (14, 39315), (15, 39351), (16, 39375), (17, 39447), (18, 39459), (19, 39474), (20, 39477), (21, 39624), (23, 39660), (24, 39675), (25, 39822), (26, 39864), (27, 39942), (28, 39963), (29, 40002), (30, 40041), (31, 40104), (32, 40107), (33, 40122), (34, 40275), (35, 40296), (36, 40386), (37, 40413), (38, 40458), (39, 40470), (40, 40566), (41, 40629),

Gene: Pound_46 Start: 39574, Stop: 41694, Start Num: 1

Candidate Starts for Pound_46:

(Start: 1 @39574 has 18 MA's), (2, 39682), (3, 39745), (4, 39862), (5, 39964), (6, 40048), (7, 40051), (8, 40099), (9, 40144), (10, 40150), (11, 40180), (12, 40237), (13, 40282), (14, 40336), (15, 40372), (16, 40396), (17, 40468), (18, 40480), (19, 40495), (20, 40498), (21, 40645), (23, 40681), (24, 40696), (25, 40843), (26, 40885), (27, 40963), (29, 41023), (30, 41062), (31, 41125), (32, 41128), (33, 41143), (34, 41296), (35, 41317), (36, 41407), (37, 41434), (38, 41479), (39, 41491), (40, 41587), (41, 41650),

Gene: Redno2_43 Start: 35308, Stop: 37428, Start Num: 1

Candidate Starts for Redno2_43:

(Start: 1 @35308 has 18 MA's), (2, 35416), (3, 35479), (4, 35596), (5, 35698), (6, 35782), (7, 35785), (8, 35833), (9, 35878), (10, 35884), (11, 35914), (12, 35971), (13, 36016), (14, 36070), (15, 36106), (16, 36130), (17, 36202), (18, 36214), (19, 36229), (20, 36232), (21, 36379), (22, 36412), (23, 36415), (24, 36430), (25, 36577), (26, 36619), (27, 36697), (28, 36718), (29, 36757), (30, 36796), (31, 36859), (32, 36862), (33, 36877), (34, 37030), (35, 37051), (36, 37141), (37, 37168), (38, 37213), (39, 37225), (40, 37321), (41, 37384),

Gene: Schatzie_42 Start: 37324, Stop: 39444, Start Num: 1

Candidate Starts for Schatzie_42:

(Start: 1 @37324 has 18 MA's), (2, 37432), (3, 37495), (4, 37612), (5, 37714), (6, 37798), (7, 37801), (8, 37849), (9, 37894), (10, 37900), (11, 37930), (12, 37987), (13, 38032), (14, 38086), (15, 38122), (16, 38146), (17, 38218), (18, 38230), (19, 38245), (20, 38248), (21, 38395), (23, 38431), (24, 38446), (25, 38593), (26, 38635), (27, 38713), (29, 38773), (30, 38812), (31, 38875), (32, 38878), (33, 38893), (34, 39046), (35, 39067), (36, 39157), (37, 39184), (38, 39229), (39, 39241), (40, 39337), (41, 39400),

Gene: ThreeRngTarjay_43 Start: 38403, Stop: 40523, Start Num: 1

Candidate Starts for ThreeRngTarjay_43:

(Start: 1 @38403 has 18 MA's), (2, 38511), (3, 38574), (4, 38691), (5, 38793), (6, 38877), (7, 38880), (8, 38928), (9, 38973), (10, 38979), (11, 39009), (12, 39066), (13, 39111), (14, 39165), (15, 39201), (16, 39225), (17, 39297), (18, 39309), (19, 39324), (20, 39327), (21, 39474), (23, 39510), (24, 39525), (25, 39672), (26, 39714), (27, 39792), (28, 39813), (29, 39852), (30, 39891), (31, 39954), (32, 39957), (33, 39972), (34, 40125), (35, 40146), (36, 40236), (37, 40263), (38, 40308), (39, 40320), (40, 40416), (41, 40479),

Gene: Yeet_43 Start: 37562, Stop: 39682, Start Num: 1

Candidate Starts for Yeet_43:

(Start: 1 @37562 has 18 MA's), (2, 37670), (3, 37733), (4, 37850), (5, 37952), (6, 38036), (7, 38039), (8, 38087), (9, 38132), (10, 38138), (11, 38168), (12, 38225), (13, 38270), (14, 38324), (15, 38360), (16, 38384), (17, 38456), (18, 38468), (19, 38483), (20, 38486), (21, 38633), (23, 38669), (24, 38684), (25, 38831), (26, 38873), (27, 38951), (28, 38972), (29, 39011), (30, 39050), (31, 39113), (32, 39116), (33, 39131), (34, 39284), (35, 39305), (36, 39395), (37, 39422), (38, 39467), (39, 39479), (40, 39575), (41, 39638),

Gene: Zelink_46 Start: 39347, Stop: 41467, Start Num: 1

Candidate Starts for Zelink_46:

(Start: 1 @39347 has 18 MA's), (2, 39455), (3, 39518), (4, 39635), (5, 39737), (6, 39821), (7, 39824), (8, 39872), (9, 39917), (10, 39923), (11, 39953), (12, 40010), (13, 40055), (14, 40109), (15, 40145), (16, 40169), (17, 40241), (18, 40253), (19, 40268), (20, 40271), (21, 40418), (22, 40451), (23, 40454), (24, 40469), (25, 40616), (26, 40658), (27, 40736), (28, 40757), (29, 40796), (30, 40835), (31, 40898), (32, 40901), (33, 40916), (34, 41069), (35, 41090), (36, 41180), (37, 41207), (38, 41252), (39, 41264), (40, 41360), (41, 41423),