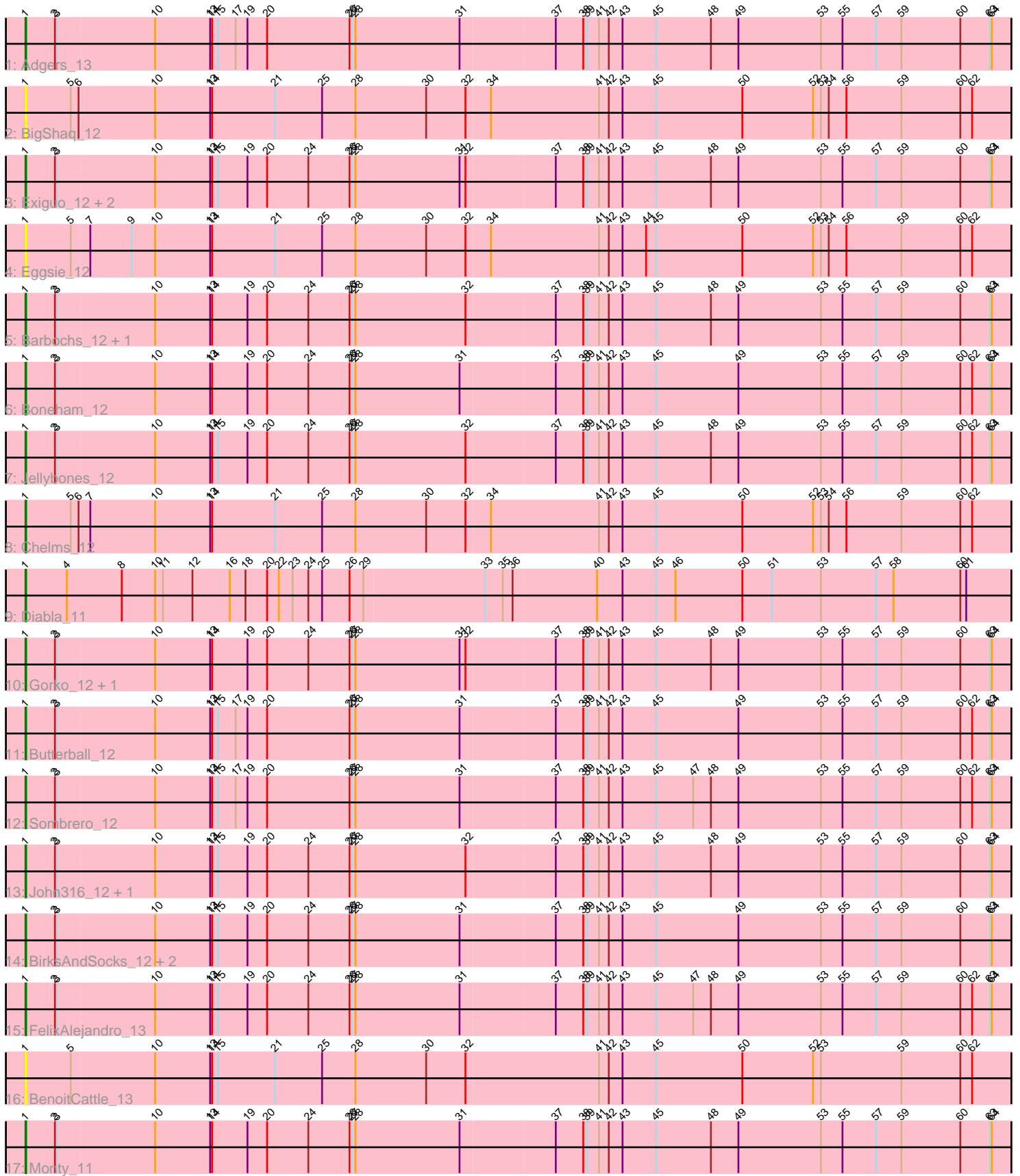


Pham 86651



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 86651 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86651 has 24 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Adgers_13
- Track 2 : BigShaq_12
- Track 3 : Exiguo_12, RemRem_13, Sam12_12
- Track 4 : Eggsie_12
- Track 5 : Barbochs_12, Breezic_12
- Track 6 : Boneham_12
- Track 7 : Jellybones_12
- Track 8 : Chelms_12
- Track 9 : Diabla_11
- Track 10 : Gorko_12, Beaver_12
- Track 11 : Butterball_12
- Track 12 : Sombrero_12
- Track 13 : John316_12, Ekhein_12
- Track 14 : BirksAndSocks_12, Msay19_13, Poland_15
- Track 15 : FelixAlejandro_13
- Track 16 : BenoitCattle_13
- Track 17 : Monty_11

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 19 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adgers_13, Barbochs_12, Beaver_12, BenoitCattle_13, BigShaq_12, BirksAndSocks_12, Boneham_12, Breezic_12, Butterball_12, Chelms_12, Diabla_11, Eggsie_12, Ekhein_12, Exiguo_12, FelixAlejandro_13, Gorko_12, Jellybones_12, John316_12, Monty_11, Msay19_13, Poland_15, RemRem_13, Sam12_12, Sombrero_12,

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 24 of 24 (100.0%) of genes in pham
- Manual Annotations of this start: 19 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adgers_13 (CS2), Barbochs_12 (CS2), Beaver_12 (CS2), BenoitCattle_13 (CS2), BigShaq_12 (CS2), BirksAndSocks_12 (CS2), Boneham_12 (CS2), Breezic_12 (CS2), Butterball_12 (CS2), Chelms_12 (CS2), Diabla_11 (CS2), Eggsie_12 (CS2), Ekhein_12 (CS2), Exiguo_12 (CS2), FelixAlejandro_13 (CS2), Gorko_12 (CS2), Jellybones_12 (CS2), John316_12 (CS2), Monty_11 (CS2), Msay19_13 (CS2), Poland_15 (CS2), RemRem_13 (CS2), Sam12_12 (CS2), Sombrero_12 (CS2),

Summary by clusters:

There is one cluster represented in this pham: CS2

Info for manual annotations of cluster CS2:

- Start number 1 was manually annotated 19 times for cluster CS2.

Gene Information:

Gene: Adgers_13 Start: 11042, Stop: 12577, Start Num: 1

Candidate Starts for Adgers_13:

(Start: 1 @11042 has 19 MA's), (2, 11087), (3, 11090), (10, 11237), (13, 11321), (14, 11324), (15, 11333), (17, 11360), (19, 11378), (20, 11408), (26, 11534), (27, 11537), (28, 11543), (31, 11702), (37, 11843), (38, 11885), (39, 11891), (41, 11909), (42, 11924), (43, 11945), (45, 11996), (48, 12080), (49, 12122), (53, 12248), (55, 12281), (57, 12332), (59, 12371), (60, 12461), (63, 12506), (64, 12509),

Gene: Barbochs_12 Start: 10880, Stop: 12415, Start Num: 1

Candidate Starts for Barbochs_12:

(Start: 1 @10880 has 19 MA's), (2, 10925), (3, 10928), (10, 11075), (13, 11159), (14, 11162), (19, 11216), (20, 11246), (24, 11309), (26, 11372), (27, 11375), (28, 11381), (32, 11549), (37, 11681), (38, 11723), (39, 11729), (41, 11747), (42, 11762), (43, 11783), (45, 11834), (48, 11918), (49, 11960), (53, 12086), (55, 12119), (57, 12170), (59, 12209), (60, 12299), (63, 12344), (64, 12347),

Gene: Beaver_12 Start: 10888, Stop: 12423, Start Num: 1

Candidate Starts for Beaver_12:

(Start: 1 @10888 has 19 MA's), (2, 10933), (3, 10936), (10, 11083), (13, 11167), (14, 11170), (19, 11224), (20, 11254), (24, 11317), (26, 11380), (27, 11383), (28, 11389), (31, 11548), (32, 11557), (37, 11689), (38, 11731), (39, 11737), (41, 11755), (42, 11770), (43, 11791), (45, 11842), (48, 11926), (49, 11968), (53, 12094), (55, 12127), (57, 12178), (59, 12217), (60, 12307), (63, 12352), (64, 12355),

Gene: BenoitCattle_13 Start: 10875, Stop: 12413, Start Num: 1

Candidate Starts for BenoitCattle_13:

(Start: 1 @10875 has 19 MA's), (5, 10944), (10, 11070), (13, 11154), (14, 11157), (15, 11166), (21, 11253), (25, 11325), (28, 11376), (30, 11484), (32, 11544), (41, 11745), (42, 11760), (43, 11781), (45, 11832), (50, 11964), (52, 12072), (53, 12084), (59, 12207), (60, 12297), (62, 12315),

Gene: BigShaq_12 Start: 10877, Stop: 12415, Start Num: 1

Candidate Starts for BigShaq_12:

(Start: 1 @10877 has 19 MA's), (5, 10946), (6, 10958), (10, 11072), (13, 11156), (14, 11159), (21, 11255), (25, 11327), (28, 11378), (30, 11486), (32, 11546), (34, 11582), (41, 11747), (42, 11762), (43, 11783), (45, 11834), (50, 11966), (52, 12074), (53, 12086), (54, 12098), (56, 12125), (59, 12209), (60, 12299), (62, 12317),

Gene: BirksAndSocks_12 Start: 10877, Stop: 12412, Start Num: 1

Candidate Starts for BirksAndSocks_12:

(Start: 1 @10877 has 19 MA's), (2, 10922), (3, 10925), (10, 11072), (13, 11156), (14, 11159), (15, 11168), (19, 11213), (20, 11243), (24, 11306), (26, 11369), (27, 11372), (28, 11378), (31, 11537), (37, 11678), (38, 11720), (39, 11726), (41, 11744), (42, 11759), (43, 11780), (45, 11831), (49, 11957), (53, 12083), (55, 12116), (57, 12167), (59, 12206), (60, 12296), (63, 12341), (64, 12344),

Gene: Boneham_12 Start: 10876, Stop: 12411, Start Num: 1

Candidate Starts for Boneham_12:

(Start: 1 @10876 has 19 MA's), (2, 10921), (3, 10924), (10, 11071), (13, 11155), (14, 11158), (19, 11212), (20, 11242), (24, 11305), (26, 11368), (27, 11371), (28, 11377), (31, 11536), (37, 11677), (38, 11719), (39, 11725), (41, 11743), (42, 11758), (43, 11779), (45, 11830), (49, 11956), (53, 12082), (55, 12115), (57, 12166), (59, 12205), (60, 12295), (62, 12313), (63, 12340), (64, 12343),

Gene: Breezic_12 Start: 10891, Stop: 12426, Start Num: 1

Candidate Starts for Breezic_12:

(Start: 1 @10891 has 19 MA's), (2, 10936), (3, 10939), (10, 11086), (13, 11170), (14, 11173), (19, 11227), (20, 11257), (24, 11320), (26, 11383), (27, 11386), (28, 11392), (32, 11560), (37, 11692), (38, 11734), (39, 11740), (41, 11758), (42, 11773), (43, 11794), (45, 11845), (48, 11929), (49, 11971), (53, 12097), (55, 12130), (57, 12181), (59, 12220), (60, 12310), (63, 12355), (64, 12358),

Gene: Butterball_12 Start: 10876, Stop: 12411, Start Num: 1

Candidate Starts for Butterball_12:

(Start: 1 @10876 has 19 MA's), (2, 10921), (3, 10924), (10, 11071), (13, 11155), (14, 11158), (15, 11167), (17, 11194), (19, 11212), (20, 11242), (26, 11368), (27, 11371), (28, 11377), (31, 11536), (37, 11677), (38, 11719), (39, 11725), (41, 11743), (42, 11758), (43, 11779), (45, 11830), (49, 11956), (53, 12082), (55, 12115), (57, 12166), (59, 12205), (60, 12295), (62, 12313), (63, 12340), (64, 12343),

Gene: Chelms_12 Start: 10877, Stop: 12415, Start Num: 1

Candidate Starts for Chelms_12:

(Start: 1 @10877 has 19 MA's), (5, 10946), (6, 10958), (7, 10973), (10, 11072), (13, 11156), (14, 11159), (21, 11255), (25, 11327), (28, 11378), (30, 11486), (32, 11546), (34, 11582), (41, 11747), (42, 11762), (43, 11783), (45, 11834), (50, 11966), (52, 12074), (53, 12086), (54, 12098), (56, 12125), (59, 12209), (60, 12299), (62, 12317),

Gene: Diabla_11 Start: 10688, Stop: 12226, Start Num: 1

Candidate Starts for Diabla_11:

(Start: 1 @10688 has 19 MA's), (4, 10751), (8, 10835), (10, 10886), (11, 10898), (12, 10943), (16, 11000), (18, 11024), (20, 11057), (22, 11075), (23, 11096), (24, 11120), (25, 11141), (26, 11183), (29, 11204), (33, 11387), (35, 11414), (36, 11429), (40, 11555), (43, 11594), (45, 11645), (46, 11675), (50, 11777), (51, 11822), (53, 11897), (57, 11981), (58, 12008), (60, 12110), (61, 12119),

Gene: Eggsie_12 Start: 10888, Stop: 12426, Start Num: 1

Candidate Starts for Eggsie_12:

(Start: 1 @10888 has 19 MA's), (5, 10957), (7, 10984), (9, 11047), (10, 11083), (13, 11167), (14, 11170), (21, 11266), (25, 11338), (28, 11389), (30, 11497), (32, 11557), (34, 11593), (41, 11758), (42, 11773), (43, 11794), (44, 11830), (45, 11845), (50, 11977), (52, 12085), (53, 12097), (54, 12109), (56, 12136), (59, 12220), (60, 12310), (62, 12328),

Gene: Ekhein_12 Start: 10876, Stop: 12411, Start Num: 1

Candidate Starts for Ekhein_12:

(Start: 1 @10876 has 19 MA's), (2, 10921), (3, 10924), (10, 11071), (13, 11155), (14, 11158), (15, 11167), (19, 11212), (20, 11242), (24, 11305), (26, 11368), (27, 11371), (28, 11377), (32, 11545), (37, 11677), (38, 11719), (39, 11725), (41, 11743), (42, 11758), (43, 11779), (45, 11830), (48, 11914), (49, 11956), (53, 12082), (55, 12115), (57, 12166), (59, 12205), (60, 12295), (63, 12340), (64, 12343),

Gene: Exiguo_12 Start: 10888, Stop: 12423, Start Num: 1

Candidate Starts for Exiguo_12:

(Start: 1 @10888 has 19 MA's), (2, 10933), (3, 10936), (10, 11083), (13, 11167), (14, 11170), (15, 11179), (19, 11224), (20, 11254), (24, 11317), (26, 11380), (27, 11383), (28, 11389), (31, 11548), (32, 11557), (37, 11689), (38, 11731), (39, 11737), (41, 11755), (42, 11770), (43, 11791), (45, 11842), (48, 11926), (49, 11968), (53, 12094), (55, 12127), (57, 12178), (59, 12217), (60, 12307), (63, 12352), (64, 12355),

Gene: FelixAlejandro_13 Start: 11074, Stop: 12609, Start Num: 1

Candidate Starts for FelixAlejandro_13:

(Start: 1 @11074 has 19 MA's), (2, 11119), (3, 11122), (10, 11269), (13, 11353), (14, 11356), (15, 11365), (19, 11410), (20, 11440), (24, 11503), (26, 11566), (27, 11569), (28, 11575), (31, 11734), (37, 11875), (38, 11917), (39, 11923), (41, 11941), (42, 11956), (43, 11977), (45, 12028), (47, 12085), (48, 12112), (49, 12154), (53, 12280), (55, 12313), (57, 12364), (59, 12403), (60, 12493), (62, 12511), (63, 12538), (64, 12541),

Gene: Gorko_12 Start: 10880, Stop: 12415, Start Num: 1

Candidate Starts for Gorko_12:

(Start: 1 @10880 has 19 MA's), (2, 10925), (3, 10928), (10, 11075), (13, 11159), (14, 11162), (19, 11216), (20, 11246), (24, 11309), (26, 11372), (27, 11375), (28, 11381), (31, 11540), (32, 11549), (37, 11681), (38, 11723), (39, 11729), (41, 11747), (42, 11762), (43, 11783), (45, 11834), (48, 11918), (49, 11960), (53, 12086), (55, 12119), (57, 12170), (59, 12209), (60, 12299), (63, 12344), (64, 12347),

Gene: Jellybones_12 Start: 10911, Stop: 12446, Start Num: 1

Candidate Starts for Jellybones_12:

(Start: 1 @10911 has 19 MA's), (2, 10956), (3, 10959), (10, 11106), (13, 11190), (14, 11193), (15, 11202), (19, 11247), (20, 11277), (24, 11340), (26, 11403), (27, 11406), (28, 11412), (32, 11580), (37, 11712), (38, 11754), (39, 11760), (41, 11778), (42, 11793), (43, 11814), (45, 11865), (48, 11949), (49, 11991), (53, 12117), (55, 12150), (57, 12201), (59, 12240), (60, 12330), (62, 12348), (63, 12375), (64, 12378),

Gene: John316_12 Start: 10876, Stop: 12411, Start Num: 1

Candidate Starts for John316_12:

(Start: 1 @10876 has 19 MA's), (2, 10921), (3, 10924), (10, 11071), (13, 11155), (14, 11158), (15, 11167), (19, 11212), (20, 11242), (24, 11305), (26, 11368), (27, 11371), (28, 11377), (32, 11545), (37, 11677), (38, 11719), (39, 11725), (41, 11743), (42, 11758), (43, 11779), (45, 11830), (48, 11914), (49, 11956), (53, 12082), (55, 12115), (57, 12166), (59, 12205), (60, 12295), (63, 12340), (64, 12343),

Gene: Monty_11 Start: 10892, Stop: 12427, Start Num: 1

Candidate Starts for Monty_11:

(Start: 1 @10892 has 19 MA's), (2, 10937), (3, 10940), (10, 11087), (13, 11171), (14, 11174), (19, 11228), (20, 11258), (24, 11321), (26, 11384), (27, 11387), (28, 11393), (31, 11552), (37, 11693), (38, 11735), (39, 11741), (41, 11759), (42, 11774), (43, 11795), (45, 11846), (48, 11930), (49, 11972), (53, 12098), (55, 12131), (57, 12182), (59, 12221), (60, 12311), (63, 12356), (64, 12359),

Gene: Msay19_13 Start: 11066, Stop: 12601, Start Num: 1

Candidate Starts for Msay19_13:

(Start: 1 @11066 has 19 MA's), (2, 11111), (3, 11114), (10, 11261), (13, 11345), (14, 11348), (15, 11357), (19, 11402), (20, 11432), (24, 11495), (26, 11558), (27, 11561), (28, 11567), (31, 11726), (37, 11867), (38, 11909), (39, 11915), (41, 11933), (42, 11948), (43, 11969), (45, 12020), (49, 12146), (53, 12272), (55, 12305), (57, 12356), (59, 12395), (60, 12485), (63, 12530), (64, 12533),

Gene: Poland_15 Start: 11042, Stop: 12577, Start Num: 1

Candidate Starts for Poland_15:

(Start: 1 @11042 has 19 MA's), (2, 11087), (3, 11090), (10, 11237), (13, 11321), (14, 11324), (15, 11333), (19, 11378), (20, 11408), (24, 11471), (26, 11534), (27, 11537), (28, 11543), (31, 11702), (37, 11843), (38, 11885), (39, 11891), (41, 11909), (42, 11924), (43, 11945), (45, 11996), (49, 12122), (53, 12248), (55, 12281), (57, 12332), (59, 12371), (60, 12461), (63, 12506), (64, 12509),

Gene: RemRem_13 Start: 10888, Stop: 12423, Start Num: 1

Candidate Starts for RemRem_13:

(Start: 1 @10888 has 19 MA's), (2, 10933), (3, 10936), (10, 11083), (13, 11167), (14, 11170), (15, 11179), (19, 11224), (20, 11254), (24, 11317), (26, 11380), (27, 11383), (28, 11389), (31, 11548), (32, 11557), (37, 11689), (38, 11731), (39, 11737), (41, 11755), (42, 11770), (43, 11791), (45, 11842), (48, 11926), (49, 11968), (53, 12094), (55, 12127), (57, 12178), (59, 12217), (60, 12307), (63, 12352), (64, 12355),

Gene: Sam12_12 Start: 10888, Stop: 12423, Start Num: 1

Candidate Starts for Sam12_12:

(Start: 1 @10888 has 19 MA's), (2, 10933), (3, 10936), (10, 11083), (13, 11167), (14, 11170), (15, 11179), (19, 11224), (20, 11254), (24, 11317), (26, 11380), (27, 11383), (28, 11389), (31, 11548), (32, 11557), (37, 11689), (38, 11731), (39, 11737), (41, 11755), (42, 11770), (43, 11791), (45, 11842), (48, 11926), (49, 11968), (53, 12094), (55, 12127), (57, 12178), (59, 12217), (60, 12307), (63, 12352), (64, 12355),

Gene: Sombrero_12 Start: 10922, Stop: 12457, Start Num: 1

Candidate Starts for Sombrero_12:

(Start: 1 @10922 has 19 MA's), (2, 10967), (3, 10970), (10, 11117), (13, 11201), (14, 11204), (15, 11213), (17, 11240), (19, 11258), (20, 11288), (26, 11414), (27, 11417), (28, 11423), (31, 11582), (37, 11723), (38, 11765), (39, 11771), (41, 11789), (42, 11804), (43, 11825), (45, 11876), (47, 11933), (48, 11960), (49, 12002), (53, 12128), (55, 12161), (57, 12212), (59, 12251), (60, 12341), (62, 12359), (63, 12386), (64, 12389),