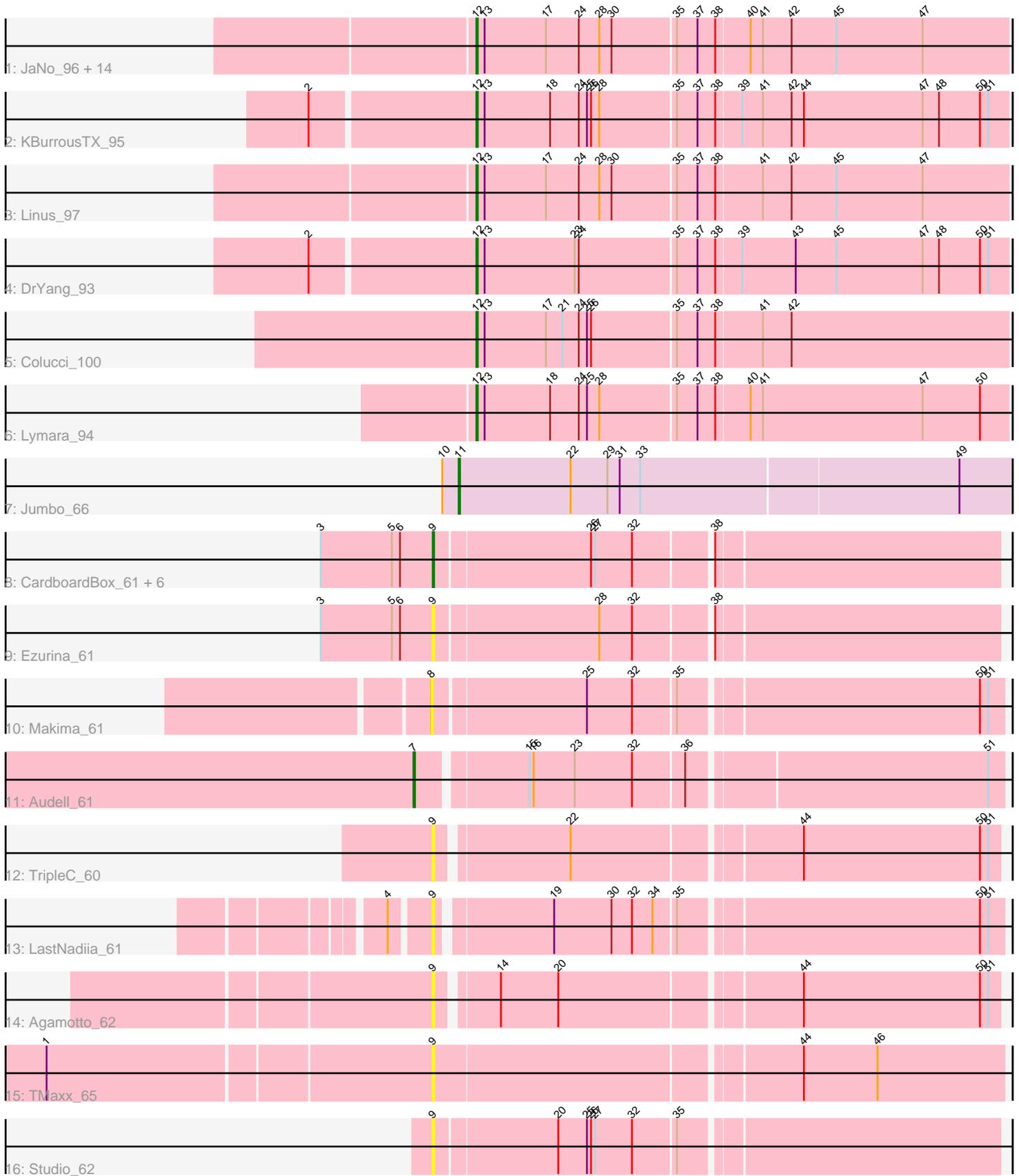# Pham 284005

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 284005 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284005 has 36 members, 14 are drafts.

Phages represented in each track:
• Track 1 : JaNo_96, Mordred_97, HumptyDumpty_97, JayCookie_97, Chubster_97, PrincessTrina_98, EdgarPoe_96, Conboy_95, RosiePosie_97, Chocolat_97, Scavito_98, Kabreeze_97, MoyaNatalis_96, Tophat_98, Chipper1996_980
• Track 2 : KBurrousTX_95
• Track 3 : Linus_97
• Track 4 : DrYang_93
• Track 5 : Colucci_100
• Track 6 : Lymara_94
• Track 7 : Jumbo_66
• Track 8 : CardboardBox_61, ChipsNGuac_61, Roberts_60, Gerri43_61, Neuvillette_60, ChamoyPickle_62, AnnabelLee_62
• Track 9 : Ezurina_61
• Track 10 : Makima_61
• Track 11 : Audell_61
• Track 12 : TripleC_60
• Track 13 : LastNadiia_61
• Track 14 : Agamotto_62
• Track 15 : TMaxx_65
• Track 16 : Studio_62

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 19 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Chipper1996_980, Chocolat_97, Chubster_97, Colucci_100, Conboy_95, DrYang_93, EdgarPoe_96, HumptyDumpty_97, JaNo_96, JayCookie_97, KBurrousTX_95, Kabreeze_97, Linus_97, Lymara_94, Mordred_97, MoyaNatalis_96, PrincessTrina_98, RosiePosie_97, Scavito_98, Tophat_98,

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

Genes that do not have the "Most Annotated" start:
• Agamotto_62, AnnabelLee_62, Audell_61, CardboardBox_61, ChamoyPickle_62, ChipsNGuac_61, Ezurina_61, Gerri43_61, Jumbo_66, LastNadiia_61, Makima_61, Neuvillette_60, Roberts_60, Studio_62, TMaxx_65, TripleC_60,

Summary by start number:

Start 7:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Audell_61 (FR),

Start 8:
• Found in 1 of 36 (2.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Makima_61 (FR),

Start 9:
• Found in 13 of 36 (36.1%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agamotto_62 (FR), AnnabelLee_62 (FR), CardboardBox_61 (FR), ChamoyPickle_62 (FR), ChipsNGuac_61 (FR), Ezurina_61 (FR), Gerri43_61 (FR), LastNadiia_61 (FR), Neuvillette_60 (FR), Roberts_60 (FR), Studio_62 (FR), TMaxx_65 (FR), TripleC_60 (FR),

Start 11:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jumbo_66 (DF3),

Start 12:
• Found in 20 of 36 (55.6%) of genes in pham
• Manual Annotations of this start: 19 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chipper1996_980 (AR), Chocolat_97 (AR), Chubster_97 (AR), Colucci_100 (AR), Conboy_95 (AR), DrYang_93 (AR), EdgarPoe_96 (AR), HumptyDumpty_97 (AR), JaNo_96 (AR), JayCookie_97 (AR), KBurrousTX_95 (AR), Kabreeze_97 (AR), Linus_97 (AR), Lymara_94 (AR), Mordred_97 (AR), MoyaNatalis_96 (AR), PrincessTrina_98 (AR), RosiePosie_97 (AR), Scavito_98 (AR), Tophat_98 (AR),

Summary by clusters:

There are 3 clusters represented in this pham: FR, AR, DF3,

Info for manual annotations of cluster AR:
•Start number 12 was manually annotated 19 times for cluster AR.

Info for manual annotations of cluster DF3:

•Start number 11 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster FR:
•Start number 7 was manually annotated 1 time for cluster FR.
•Start number 9 was manually annotated 1 time for cluster FR.

Gene Information:

Gene: Agamotto_62 Start: 39521, Stop: 39132, Start Num: 9
Candidate Starts for Agamotto_62:
(Start: 9 @39521 has 1 MA's), (14, 39482), (20, 39440), (44, 39275), (50, 39146), (51, 39140),

Gene: AnnabelLee_62 Start: 35926, Stop: 35531, Start Num: 9
Candidate Starts for AnnabelLee_62:
(3, 36007), (5, 35956), (6, 35950), (Start: 9 @35926 has 1 MA's), (26, 35815), (27, 35812), (32, 35785), (38, 35734),

Gene: Audell_61 Start: 39182, Stop: 38775, Start Num: 7
Candidate Starts for Audell_61:
(Start: 7 @39182 has 1 MA's), (15, 39107), (16, 39104), (23, 39074), (32, 39032), (36, 38996), (51, 38786),

Gene: CardboardBox_61 Start: 35929, Stop: 35534, Start Num: 9
Candidate Starts for CardboardBox_61:
(3, 36010), (5, 35959), (6, 35953), (Start: 9 @35929 has 1 MA's), (26, 35818), (27, 35815), (32, 35788), (38, 35737),

Gene: ChamoyPickle_62 Start: 36469, Stop: 36074, Start Num: 9
Candidate Starts for ChamoyPickle_62:
(3, 36550), (5, 36499), (6, 36493), (Start: 9 @36469 has 1 MA's), (26, 36358), (27, 36355), (32, 36328), (38, 36277),

Gene: Chipper1996_980 Start: 62828, Stop: 63211, Start Num: 12
Candidate Starts for Chipper1996_980:
(Start: 12 @62828 has 19 MA's), (13, 62834), (17, 62879), (24, 62903), (28, 62918), (30, 62927), (35, 62972), (37, 62987), (38, 62999), (40, 63023), (41, 63032), (42, 63053), (45, 63086), (47, 63149),

Gene: ChipsNGuac_61 Start: 35929, Stop: 35534, Start Num: 9
Candidate Starts for ChipsNGuac_61:
(3, 36010), (5, 35959), (6, 35953), (Start: 9 @35929 has 1 MA's), (26, 35818), (27, 35815), (32, 35788), (38, 35737),

Gene: Chocolat_97 Start: 62535, Stop: 62918, Start Num: 12
Candidate Starts for Chocolat_97:
(Start: 12 @62535 has 19 MA's), (13, 62541), (17, 62586), (24, 62610), (28, 62625), (30, 62634), (35, 62679), (37, 62694), (38, 62706), (40, 62730), (41, 62739), (42, 62760), (45, 62793), (47, 62856),

Gene: Chubster_97 Start: 62775, Stop: 63158, Start Num: 12
Candidate Starts for Chubster_97:
(Start: 12 @62775 has 19 MA's), (13, 62781), (17, 62826), (24, 62850), (28, 62865), (30, 62874), (35, 62919), (37, 62934), (38, 62946), (40, 62970), (41, 62979), (42, 63000), (45, 63033), (47, 63096),

Gene: Colucci_100 Start: 63169, Stop: 63552, Start Num: 12
Candidate Starts for Colucci_100:
(Start: 12 @63169 has 19 MA's), (13, 63175), (17, 63220), (21, 63232), (24, 63244), (25, 63250), (26, 63253), (35, 63313), (37, 63328), (38, 63340), (41, 63373), (42, 63394),

Gene: Conboy_95 Start: 62284, Stop: 62667, Start Num: 12
Candidate Starts for Conboy_95:
(Start: 12 @62284 has 19 MA's), (13, 62290), (17, 62335), (24, 62359), (28, 62374), (30, 62383), (35, 62428), (37, 62443), (38, 62455), (40, 62479), (41, 62488), (42, 62509), (45, 62542), (47, 62605),

Gene: DrYang_93 Start: 62321, Stop: 62704, Start Num: 12
Candidate Starts for DrYang_93:
(2, 62204), (Start: 12 @62321 has 19 MA's), (13, 62327), (23, 62393), (24, 62396), (35, 62465), (37, 62480), (38, 62492), (39, 62510), (43, 62549), (45, 62579), (47, 62642), (48, 62654), (50, 62684), (51, 62690),

Gene: EdgarPoe_96 Start: 62692, Stop: 63075, Start Num: 12
Candidate Starts for EdgarPoe_96:
(Start: 12 @62692 has 19 MA's), (13, 62698), (17, 62743), (24, 62767), (28, 62782), (30, 62791), (35, 62836), (37, 62851), (38, 62863), (40, 62887), (41, 62896), (42, 62917), (45, 62950), (47, 63013),

Gene: Ezurina_61 Start: 36981, Stop: 36586, Start Num: 9
Candidate Starts for Ezurina_61:
(3, 37062), (5, 37011), (6, 37005), (Start: 9 @36981 has 1 MA's), (28, 36864), (32, 36840), (38, 36789),

Gene: Gerri43_61 Start: 35929, Stop: 35534, Start Num: 9
Candidate Starts for Gerri43_61:
(3, 36010), (5, 35959), (6, 35953), (Start: 9 @35929 has 1 MA's), (26, 35818), (27, 35815), (32, 35788), (38, 35737),

Gene: HumptyDumpty_97 Start: 62495, Stop: 62878, Start Num: 12
Candidate Starts for HumptyDumpty_97:
(Start: 12 @62495 has 19 MA's), (13, 62501), (17, 62546), (24, 62570), (28, 62585), (30, 62594), (35, 62639), (37, 62654), (38, 62666), (40, 62690), (41, 62699), (42, 62720), (45, 62753), (47, 62816),

Gene: JaNo_96 Start: 62466, Stop: 62849, Start Num: 12
Candidate Starts for JaNo_96:
(Start: 12 @62466 has 19 MA's), (13, 62472), (17, 62517), (24, 62541), (28, 62556), (30, 62565), (35, 62610), (37, 62625), (38, 62637), (40, 62661), (41, 62670), (42, 62691), (45, 62724), (47, 62787),

Gene: JayCookie_97 Start: 63028, Stop: 63411, Start Num: 12
Candidate Starts for JayCookie_97:
(Start: 12 @63028 has 19 MA's), (13, 63034), (17, 63079), (24, 63103), (28, 63118), (30, 63127), (35, 63172), (37, 63187), (38, 63199), (40, 63223), (41, 63232), (42, 63253), (45, 63286), (47, 63349),

Gene: Jumbo_66 Start: 57675, Stop: 57277, Start Num: 11
Candidate Starts for Jumbo_66:
(10, 57687), (Start: 11 @57675 has 1 MA's), (22, 57594), (29, 57567), (31, 57558), (33, 57543), (49, 57315),

Gene: KBurrousTX_95 Start: 63905, Stop: 64288, Start Num: 12
Candidate Starts for KBurrousTX_95:

(2, 63788), (Start: 12 @63905 has 19 MA's), (13, 63911), (18, 63959), (24, 63980), (25, 63986), (26, 63989), (28, 63995), (35, 64049), (37, 64064), (38, 64076), (39, 64094), (41, 64109), (42, 64130), (44, 64139), (47, 64226), (48, 64238), (50, 64268), (51, 64274),

Gene: Kabreeze_97 Start: 62552, Stop: 62935, Start Num: 12
Candidate Starts for Kabreeze_97:
(Start: 12 @62552 has 19 MA's), (13, 62558), (17, 62603), (24, 62627), (28, 62642), (30, 62651), (35, 62696), (37, 62711), (38, 62723), (40, 62747), (41, 62756), (42, 62777), (45, 62810), (47, 62873),

Gene: LastNadiia_61 Start: 38916, Stop: 38524, Start Num: 9
Candidate Starts for LastNadiia_61:
(4, 38943), (Start: 9 @38916 has 1 MA's), (19, 38838), (30, 38796), (32, 38781), (34, 38766), (35, 38751), (50, 38541), (51, 38535),

Gene: Linus_97 Start: 63000, Stop: 63383, Start Num: 12
Candidate Starts for Linus_97:
(Start: 12 @63000 has 19 MA's), (13, 63006), (17, 63051), (24, 63075), (28, 63090), (30, 63099), (35, 63144), (37, 63159), (38, 63171), (41, 63204), (42, 63225), (45, 63258), (47, 63321),

Gene: Lymara_94 Start: 61459, Stop: 61842, Start Num: 12
Candidate Starts for Lymara_94:
(Start: 12 @61459 has 19 MA's), (13, 61465), (18, 61513), (24, 61534), (25, 61540), (28, 61549), (35, 61603), (37, 61618), (38, 61630), (40, 61654), (41, 61663), (47, 61780), (50, 61822),

Gene: Makima_61 Start: 38449, Stop: 38051, Start Num: 8
Candidate Starts for Makima_61:
(8, 38449), (25, 38341), (32, 38308), (35, 38278), (50, 38068), (51, 38062),

Gene: Mordred_97 Start: 62591, Stop: 62974, Start Num: 12
Candidate Starts for Mordred_97:
(Start: 12 @62591 has 19 MA's), (13, 62597), (17, 62642), (24, 62666), (28, 62681), (30, 62690), (35, 62735), (37, 62750), (38, 62762), (40, 62786), (41, 62795), (42, 62816), (45, 62849), (47, 62912),

Gene: MoyaNatalis_96 Start: 62474, Stop: 62857, Start Num: 12
Candidate Starts for MoyaNatalis_96:
(Start: 12 @62474 has 19 MA's), (13, 62480), (17, 62525), (24, 62549), (28, 62564), (30, 62573), (35, 62618), (37, 62633), (38, 62645), (40, 62669), (41, 62678), (42, 62699), (45, 62732), (47, 62795),

Gene: Neuvillette_60 Start: 35929, Stop: 35534, Start Num: 9
Candidate Starts for Neuvillette_60:
(3, 36010), (5, 35959), (6, 35953), (Start: 9 @35929 has 1 MA's), (26, 35818), (27, 35815), (32, 35788), (38, 35737),

Gene: PrincessTrina_98 Start: 62782, Stop: 63165, Start Num: 12
Candidate Starts for PrincessTrina_98:
(Start: 12 @62782 has 19 MA's), (13, 62788), (17, 62833), (24, 62857), (28, 62872), (30, 62881), (35, 62926), (37, 62941), (38, 62953), (40, 62977), (41, 62986), (42, 63007), (45, 63040), (47, 63103),

Gene: Roberts_60 Start: 35929, Stop: 35534, Start Num: 9
Candidate Starts for Roberts_60:
(3, 36010), (5, 35959), (6, 35953), (Start: 9 @35929 has 1 MA's), (26, 35818), (27, 35815), (32, 35788), (38, 35737),

Gene: RosiePosie_97 Start: 62647, Stop: 63030, Start Num: 12
Candidate Starts for RosiePosie_97:
(Start: 12 @62647 has 19 MA's), (13, 62653), (17, 62698), (24, 62722), (28, 62737), (30, 62746), (35, 62791), (37, 62806), (38, 62818), (40, 62842), (41, 62851), (42, 62872), (45, 62905), (47, 62968),

Gene: Scavito_98 Start: 62640, Stop: 63023, Start Num: 12
Candidate Starts for Scavito_98:
(Start: 12 @62640 has 19 MA's), (13, 62646), (17, 62691), (24, 62715), (28, 62730), (30, 62739), (35, 62784), (37, 62799), (38, 62811), (40, 62835), (41, 62844), (42, 62865), (45, 62898), (47, 62961),

Gene: Studio_62 Start: 37119, Stop: 36724, Start Num: 9
Candidate Starts for Studio_62:
(Start: 9 @37119 has 1 MA's), (20, 37032), (25, 37011), (26, 37008), (27, 37005), (32, 36978), (35, 36948),

Gene: TMaxx_65 Start: 37726, Stop: 37325, Start Num: 9
Candidate Starts for TMaxx_65:
(1, 37999), (Start: 9 @37726 has 1 MA's), (44, 37471), (46, 37417),

Gene: Tophat_98 Start: 62829, Stop: 63212, Start Num: 12
Candidate Starts for Tophat_98:
(Start: 12 @62829 has 19 MA's), (13, 62835), (17, 62880), (24, 62904), (28, 62919), (30, 62928), (35, 62973), (37, 62988), (38, 63000), (40, 63024), (41, 63033), (42, 63054), (45, 63087), (47, 63150),

Gene: TripleC_60 Start: 38749, Stop: 38360, Start Num: 9
Candidate Starts for TripleC_60:
(Start: 9 @38749 has 1 MA's), (22, 38659), (44, 38503), (50, 38374), (51, 38368),