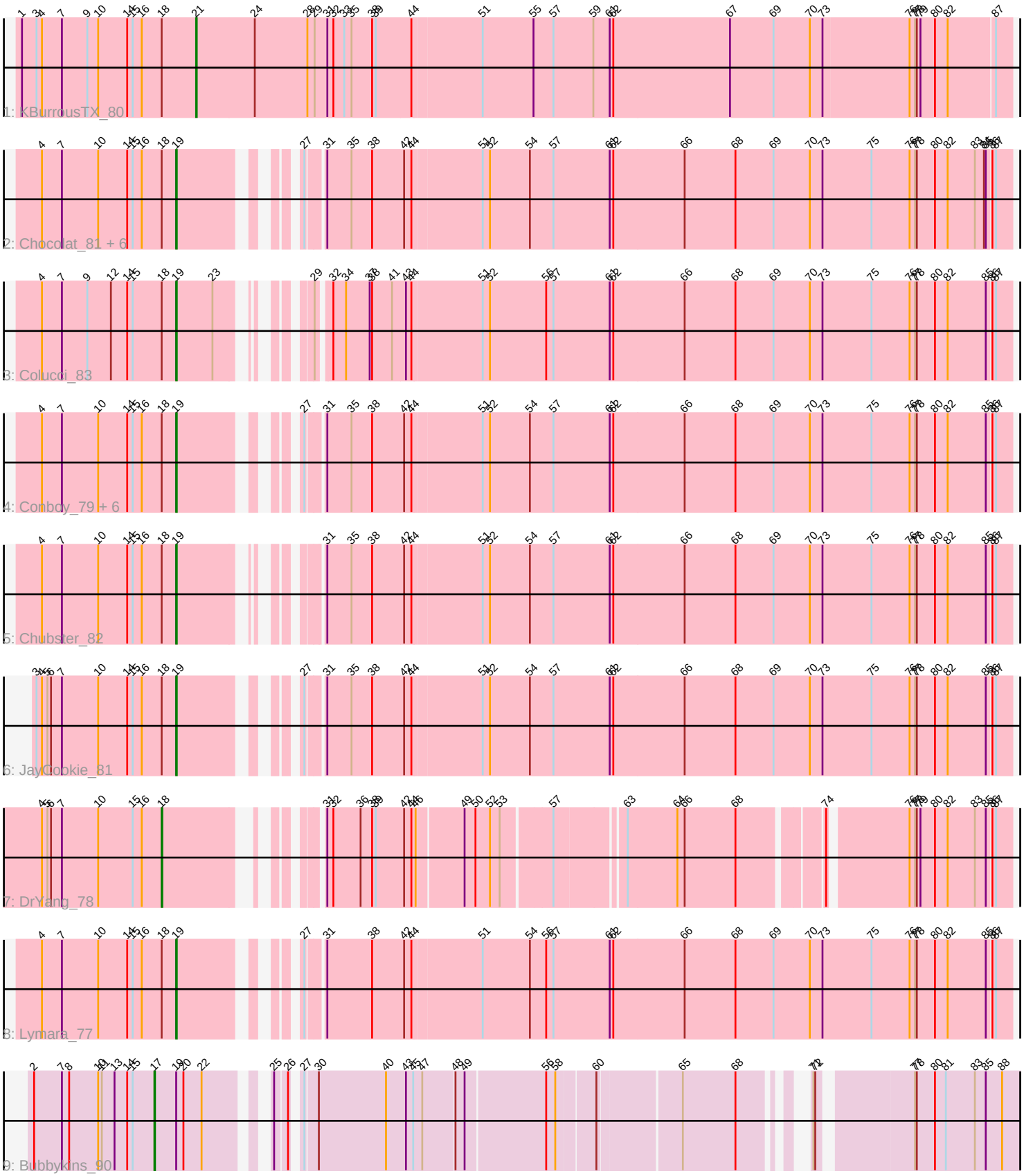
Pham 344383


1: KBurrousTX_80
2: Chocolat_81 + 6
3: Colucci_83
4: Combdy_79 + 6
5: Chubster_82
6: JayCobkie_81
7: DrYang_78
8: Lymara_77
9: Bubbykins_90

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 344383 Report

This analysis was run 11/14/26 on database version 672.

Pham number 344383 has 21 members, 1 are drafts.

Phages represented in each track:
• Track 1 : KBurrousTX_80
• Track 2 : Chocolat_81, Scavito_82, Kabreeze_81, JaNo_80, Chipper1996_820, Tophat_82, Mordred_81
• Track 3 : Colucci_83
• Track 4 : Conboy_79, HumptyDumpty_81, MoyaNatalis_80, EdgarPoe_80, PrincessTrina_82, RosiePosie_81, Linus_81
• Track 5 : Chubster_82
• Track 6 : JayCookie_81
• Track 7 : DrYang_78
• Track 8 : Lymara_77
• Track 9 : Bubbykins_90

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

The start number called the most often in the published annotations is 19, it was called in 17 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Chipper1996_820, Chocolat_81, Chubster_82, Colucci_83, Conboy_79, EdgarPoe_80, HumptyDumpty_81, JaNo_80, JayCookie_81, Kabreeze_81, Linus_81, Lymara_77, Mordred_81, MoyaNatalis_80, PrincessTrina_82, RosiePosie_81, Scavito_82, Tophat_82,

Genes that have the "Most Annotated" start but do not call it:
• Bubbykins_90,

Genes that do not have the "Most Annotated" start:
• DrYang_78, KBurrousTX_80,

Summary by start number:

Start 17:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 20

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bubbykins_90 (UNK),

Start 18:
• Found in 20 of 21 (95.2%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 5.0% of time when present
• Phage (with cluster) where this start called: DrYang_78 (AR),

Start 19:
• Found in 19 of 21 (90.5%) of genes in pham
• Manual Annotations of this start: 17 of 20
• Called 94.7% of time when present
• Phage (with cluster) where this start called: Chipper1996_820 (AR), Chocolat_81 (AR), Chubster_82 (AR), Colucci_83 (AR), Conboy_79 (AR), EdgarPoe_80 (AR), HumptyDumpty_81 (AR), JaNo_80 (AR), JayCookie_81 (AR), Kabreeze_81 (AR), Linus_81 (AR), Lymara_77 (AR), Mordred_81 (AR), MoyaNatalis_80 (AR), PrincessTrina_82 (AR), RosiePosie_81 (AR), Scavito_82 (AR), Tophat_82 (AR),

Start 21:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: KBurrousTX_80 (AR),

Summary by clusters:

There are 2 clusters represented in this pham: UNK, AR,

Info for manual annotations of cluster AR:
•Start number 18 was manually annotated 1 time for cluster AR.
•Start number 19 was manually annotated 17 times for cluster AR.
•Start number 21 was manually annotated 1 time for cluster AR.

Info for manual annotations of cluster UNK:
•Start number 17 was manually annotated 1 time for cluster UNK.

Gene Information:

Gene: Bubbykins_90 Start: 55494, Stop: 56735, Start Num: 17
Candidate Starts for Bubbykins_90:
(2, 55296), (7, 55341), (8, 55353), (10, 55401), (11, 55407), (13, 55428), (14, 55449), (15, 55458), (Start: 17 @55494 has 1 MA's), (Start: 19 @55530 has 17 MA's), (20, 55542), (22, 55572), (25, 55647), (26, 55665), (27, 55674), (30, 55692), (40, 55803), (43, 55836), (45, 55848), (47, 55863), (48, 55914), (49, 55929), (56, 56058), (58, 56073), (60, 56133), (65, 56262), (68, 56349), (71, 56418), (72, 56421), (77, 56559), (78, 56562), (80, 56592), (81, 56610), (83, 56658), (85, 56676), (88, 56703),

Gene: Chipper1996_820 Start: 52852, Stop: 54129, Start Num: 19
Candidate Starts for Chipper1996_820:
(4, 52630), (7, 52663), (10, 52723), (14, 52771), (15, 52780), (16, 52795), (Start: 18 @52828 has 1 MA's), (Start: 19 @52852 has 17 MA's), (27, 52990), (31, 53014), (35, 53053), (38, 53086), (42,

53137), (44, 53149), (51, 53260), (52, 53272), (54, 53338), (57, 53377), (61, 53470), (62, 53476), (66, 53593), (68, 53677), (69, 53740), (70, 53800), (73, 53821), (75, 53902), (76, 53965), (77, 53974), (78, 53977), (80, 54007), (82, 54028), (83, 54073), (84, 54088), (85, 54091), (86, 54097), (87, 54103),

Gene: Chocolat_81 Start: 52559, Stop: 53836, Start Num: 19
Candidate Starts for Chocolat_81:
(4, 52337), (7, 52370), (10, 52430), (14, 52478), (15, 52487), (16, 52502), (Start: 18 @52535 has 1 MA's), (Start: 19 @52559 has 17 MA's), (27, 52697), (31, 52721), (35, 52760), (38, 52793), (42, 52844), (44, 52856), (51, 52967), (52, 52979), (54, 53045), (57, 53084), (61, 53177), (62, 53183), (66, 53300), (68, 53384), (69, 53447), (70, 53507), (73, 53528), (75, 53609), (76, 53672), (77, 53681), (78, 53684), (80, 53714), (82, 53735), (83, 53780), (84, 53795), (85, 53798), (86, 53804), (87, 53810),

Gene: Chubster_82 Start: 53253, Stop: 54518, Start Num: 19
Candidate Starts for Chubster_82:
(4, 53031), (7, 53064), (10, 53124), (14, 53172), (15, 53181), (16, 53196), (Start: 18 @53229 has 1 MA's), (Start: 19 @53253 has 17 MA's), (31, 53403), (35, 53442), (38, 53475), (42, 53526), (44, 53538), (51, 53649), (52, 53661), (54, 53727), (57, 53766), (61, 53859), (62, 53865), (66, 53982), (68, 54066), (69, 54129), (70, 54189), (73, 54210), (75, 54291), (76, 54354), (77, 54363), (78, 54366), (80, 54396), (82, 54417), (85, 54480), (86, 54486), (87, 54492),

Gene: Colucci_83 Start: 53289, Stop: 54554, Start Num: 19
Candidate Starts for Colucci_83:
(4, 53067), (7, 53100), (9, 53142), (12, 53181), (14, 53208), (15, 53217), (Start: 18 @53265 has 1 MA's), (Start: 19 @53289 has 17 MA's), (23, 53346), (29, 53427), (32, 53445), (34, 53466), (37, 53505), (38, 53508), (41, 53541), (43, 53562), (44, 53571), (51, 53685), (52, 53697), (56, 53790), (57, 53802), (61, 53895), (62, 53901), (66, 54018), (68, 54102), (69, 54165), (70, 54225), (73, 54246), (75, 54327), (76, 54390), (77, 54399), (78, 54402), (80, 54432), (82, 54453), (85, 54516), (86, 54522), (87, 54528),

Gene: Conboy_79 Start: 52341, Stop: 53618, Start Num: 19
Candidate Starts for Conboy_79:
(4, 52119), (7, 52152), (10, 52212), (14, 52260), (15, 52269), (16, 52284), (Start: 18 @52317 has 1 MA's), (Start: 19 @52341 has 17 MA's), (27, 52479), (31, 52503), (35, 52542), (38, 52575), (42, 52626), (44, 52638), (51, 52749), (52, 52761), (54, 52827), (57, 52866), (61, 52959), (62, 52965), (66, 53082), (68, 53166), (69, 53229), (70, 53289), (73, 53310), (75, 53391), (76, 53454), (77, 53463), (78, 53466), (80, 53496), (82, 53517), (85, 53580), (86, 53586), (87, 53592),

Gene: DrYang_78 Start: 53011, Stop: 54216, Start Num: 18
Candidate Starts for DrYang_78:
(4, 52813), (5, 52822), (6, 52828), (7, 52846), (10, 52906), (15, 52963), (16, 52978), (Start: 18 @53011 has 1 MA's), (31, 53182), (32, 53191), (36, 53236), (38, 53254), (39, 53260), (42, 53305), (44, 53317), (46, 53323), (49, 53395), (50, 53413), (52, 53434), (53, 53449), (57, 53527), (63, 53632), (64, 53713), (66, 53725), (68, 53809), (74, 53932), (76, 54052), (77, 54061), (78, 54064), (79, 54070), (80, 54094), (82, 54115), (83, 54160), (85, 54178), (86, 54184), (87, 54190),

Gene: EdgarPoe_80 Start: 52716, Stop: 53993, Start Num: 19
Candidate Starts for EdgarPoe_80:
(4, 52494), (7, 52527), (10, 52587), (14, 52635), (15, 52644), (16, 52659), (Start: 18 @52692 has 1 MA's), (Start: 19 @52716 has 17 MA's), (27, 52854), (31, 52878), (35, 52917), (38, 52950), (42, 53001), (44, 53013), (51, 53124), (52, 53136), (54, 53202), (57, 53241), (61, 53334), (62, 53340), (66, 53457), (68, 53541), (69, 53604), (70, 53664), (73, 53685), (75, 53766), (76, 53829), (77, 53838), (78, 53841), (80, 53871), (82, 53892), (85, 53955), (86, 53961), (87, 53967),

Gene: HumptyDumpty_81 Start: 52519, Stop: 53796, Start Num: 19
Candidate Starts for HumptyDumpty_81:
(4, 52297), (7, 52330), (10, 52390), (14, 52438), (15, 52447), (16, 52462), (Start: 18 @52495 has 1 MA's), (Start: 19 @52519 has 17 MA's), (27, 52657), (31, 52681), (35, 52720), (38, 52753), (42, 52804), (44, 52816), (51, 52927), (52, 52939), (54, 53005), (57, 53044), (61, 53137), (62, 53143), (66, 53260), (68, 53344), (69, 53407), (70, 53467), (73, 53488), (75, 53569), (76, 53632), (77, 53641), (78, 53644), (80, 53674), (82, 53695), (85, 53758), (86, 53764), (87, 53770),

Gene: JaNo_80 Start: 52490, Stop: 53767, Start Num: 19
Candidate Starts for JaNo_80:
(4, 52268), (7, 52301), (10, 52361), (14, 52409), (15, 52418), (16, 52433), (Start: 18 @52466 has 1 MA's), (Start: 19 @52490 has 17 MA's), (27, 52628), (31, 52652), (35, 52691), (38, 52724), (42, 52775), (44, 52787), (51, 52898), (52, 52910), (54, 52976), (57, 53015), (61, 53108), (62, 53114), (66, 53231), (68, 53315), (69, 53378), (70, 53438), (73, 53459), (75, 53540), (76, 53603), (77, 53612), (78, 53615), (80, 53645), (82, 53666), (83, 53711), (84, 53726), (85, 53729), (86, 53735), (87, 53741),

Gene: JayCookie_81 Start: 53052, Stop: 54329, Start Num: 19
Candidate Starts for JayCookie_81:
(3, 52821), (4, 52830), (5, 52839), (6, 52845), (7, 52863), (10, 52923), (14, 52971), (15, 52980), (16, 52995), (Start: 18 @53028 has 1 MA's), (Start: 19 @53052 has 17 MA's), (27, 53190), (31, 53214), (35, 53253), (38, 53286), (42, 53337), (44, 53349), (51, 53460), (52, 53472), (54, 53538), (57, 53577), (61, 53670), (62, 53676), (66, 53793), (68, 53877), (69, 53940), (70, 54000), (73, 54021), (75, 54102), (76, 54165), (77, 54174), (78, 54177), (80, 54207), (82, 54228), (85, 54291), (86, 54297), (87, 54303),

Gene: KBurrousTX_80 Start: 54664, Stop: 55992, Start Num: 21
Candidate Starts for KBurrousTX_80:
(1, 54379), (3, 54403), (4, 54412), (7, 54445), (9, 54487), (10, 54505), (14, 54553), (15, 54562), (16, 54577), (Start: 18 @54610 has 1 MA's), (Start: 21 @54664 has 1 MA's), (24, 54760), (28, 54847), (29, 54859), (31, 54880), (32, 54889), (33, 54907), (35, 54919), (38, 54952), (39, 54958), (44, 55015), (51, 55126), (55, 55210), (57, 55243), (59, 55309), (61, 55336), (62, 55342), (67, 55534), (69, 55606), (70, 55666), (73, 55687), (76, 55828), (77, 55837), (78, 55840), (79, 55846), (80, 55870), (82, 55891), (87, 55966),

Gene: Kabreeze_81 Start: 52576, Stop: 53853, Start Num: 19
Candidate Starts for Kabreeze_81:
(4, 52354), (7, 52387), (10, 52447), (14, 52495), (15, 52504), (16, 52519), (Start: 18 @52552 has 1 MA's), (Start: 19 @52576 has 17 MA's), (27, 52714), (31, 52738), (35, 52777), (38, 52810), (42, 52861), (44, 52873), (51, 52984), (52, 52996), (54, 53062), (57, 53101), (61, 53194), (62, 53200), (66, 53317), (68, 53401), (69, 53464), (70, 53524), (73, 53545), (75, 53626), (76, 53689), (77, 53698), (78, 53701), (80, 53731), (82, 53752), (83, 53797), (84, 53812), (85, 53815), (86, 53821), (87, 53827),

Gene: Linus_81 Start: 53024, Stop: 54301, Start Num: 19
Candidate Starts for Linus_81:
(4, 52802), (7, 52835), (10, 52895), (14, 52943), (15, 52952), (16, 52967), (Start: 18 @53000 has 1 MA's), (Start: 19 @53024 has 17 MA's), (27, 53162), (31, 53186), (35, 53225), (38, 53258), (42, 53309), (44, 53321), (51, 53432), (52, 53444), (54, 53510), (57, 53549), (61, 53642), (62, 53648), (66, 53765), (68, 53849), (69, 53912), (70, 53972), (73, 53993), (75, 54074), (76, 54137), (77, 54146), (78, 54149), (80, 54179), (82, 54200), (85, 54263), (86, 54269), (87, 54275),

Gene: Lymara_77 Start: 51381, Stop: 52658, Start Num: 19
Candidate Starts for Lymara_77:
(4, 51159), (7, 51192), (10, 51252), (14, 51300), (15, 51309), (16, 51324), (Start: 18 @51357 has 1 MA's), (Start: 19 @51381 has 17 MA's), (27, 51519), (31, 51543), (38, 51615), (42, 51666), (44,

51678), (51, 51789), (54, 51867), (56, 51894), (57, 51906), (61, 51999), (62, 52005), (66, 52122), (68, 52206), (69, 52269), (70, 52329), (73, 52350), (75, 52431), (76, 52494), (77, 52503), (78, 52506), (80, 52536), (82, 52557), (85, 52620), (86, 52626), (87, 52632),

Gene: Mordred_81 Start: 52615, Stop: 53892, Start Num: 19
Candidate Starts for Mordred_81:
(4, 52393), (7, 52426), (10, 52486), (14, 52534), (15, 52543), (16, 52558), (Start: 18 @52591 has 1 MA's), (Start: 19 @52615 has 17 MA's), (27, 52753), (31, 52777), (35, 52816), (38, 52849), (42, 52900), (44, 52912), (51, 53023), (52, 53035), (54, 53101), (57, 53140), (61, 53233), (62, 53239), (66, 53356), (68, 53440), (69, 53503), (70, 53563), (73, 53584), (75, 53665), (76, 53728), (77, 53737), (78, 53740), (80, 53770), (82, 53791), (83, 53836), (84, 53851), (85, 53854), (86, 53860), (87, 53866),

Gene: MoyaNatalis_80 Start: 52498, Stop: 53775, Start Num: 19
Candidate Starts for MoyaNatalis_80:
(4, 52276), (7, 52309), (10, 52369), (14, 52417), (15, 52426), (16, 52441), (Start: 18 @52474 has 1 MA's), (Start: 19 @52498 has 17 MA's), (27, 52636), (31, 52660), (35, 52699), (38, 52732), (42, 52783), (44, 52795), (51, 52906), (52, 52918), (54, 52984), (57, 53023), (61, 53116), (62, 53122), (66, 53239), (68, 53323), (69, 53386), (70, 53446), (73, 53467), (75, 53548), (76, 53611), (77, 53620), (78, 53623), (80, 53653), (82, 53674), (85, 53737), (86, 53743), (87, 53749),

Gene: PrincessTrina_82 Start: 52920, Stop: 54197, Start Num: 19
Candidate Starts for PrincessTrina_82:
(4, 52698), (7, 52731), (10, 52791), (14, 52839), (15, 52848), (16, 52863), (Start: 18 @52896 has 1 MA's), (Start: 19 @52920 has 17 MA's), (27, 53058), (31, 53082), (35, 53121), (38, 53154), (42, 53205), (44, 53217), (51, 53328), (52, 53340), (54, 53406), (57, 53445), (61, 53538), (62, 53544), (66, 53661), (68, 53745), (69, 53808), (70, 53868), (73, 53889), (75, 53970), (76, 54033), (77, 54042), (78, 54045), (80, 54075), (82, 54096), (85, 54159), (86, 54165), (87, 54171),

Gene: RosiePosie_81 Start: 52704, Stop: 53981, Start Num: 19
Candidate Starts for RosiePosie_81:
(4, 52482), (7, 52515), (10, 52575), (14, 52623), (15, 52632), (16, 52647), (Start: 18 @52680 has 1 MA's), (Start: 19 @52704 has 17 MA's), (27, 52842), (31, 52866), (35, 52905), (38, 52938), (42, 52989), (44, 53001), (51, 53112), (52, 53124), (54, 53190), (57, 53229), (61, 53322), (62, 53328), (66, 53445), (68, 53529), (69, 53592), (70, 53652), (73, 53673), (75, 53754), (76, 53817), (77, 53826), (78, 53829), (80, 53859), (82, 53880), (85, 53943), (86, 53949), (87, 53955),

Gene: Scavito_82 Start: 52664, Stop: 53941, Start Num: 19
Candidate Starts for Scavito_82:
(4, 52442), (7, 52475), (10, 52535), (14, 52583), (15, 52592), (16, 52607), (Start: 18 @52640 has 1 MA's), (Start: 19 @52664 has 17 MA's), (27, 52802), (31, 52826), (35, 52865), (38, 52898), (42, 52949), (44, 52961), (51, 53072), (52, 53084), (54, 53150), (57, 53189), (61, 53282), (62, 53288), (66, 53405), (68, 53489), (69, 53552), (70, 53612), (73, 53633), (75, 53714), (76, 53777), (77, 53786), (78, 53789), (80, 53819), (82, 53840), (83, 53885), (84, 53900), (85, 53903), (86, 53909), (87, 53915),

Gene: Tophat_82 Start: 52853, Stop: 54130, Start Num: 19
Candidate Starts for Tophat_82:
(4, 52631), (7, 52664), (10, 52724), (14, 52772), (15, 52781), (16, 52796), (Start: 18 @52829 has 1 MA's), (Start: 19 @52853 has 17 MA's), (27, 52991), (31, 53015), (35, 53054), (38, 53087), (42, 53138), (44, 53150), (51, 53261), (52, 53273), (54, 53339), (57, 53378), (61, 53471), (62, 53477), (66, 53594), (68, 53678), (69, 53741), (70, 53801), (73, 53822), (75, 53903), (76, 53966), (77, 53975), (78, 53978), (80, 54008), (82, 54029), (83, 54074), (84, 54089), (85, 54092), (86, 54098), (87, 54104),