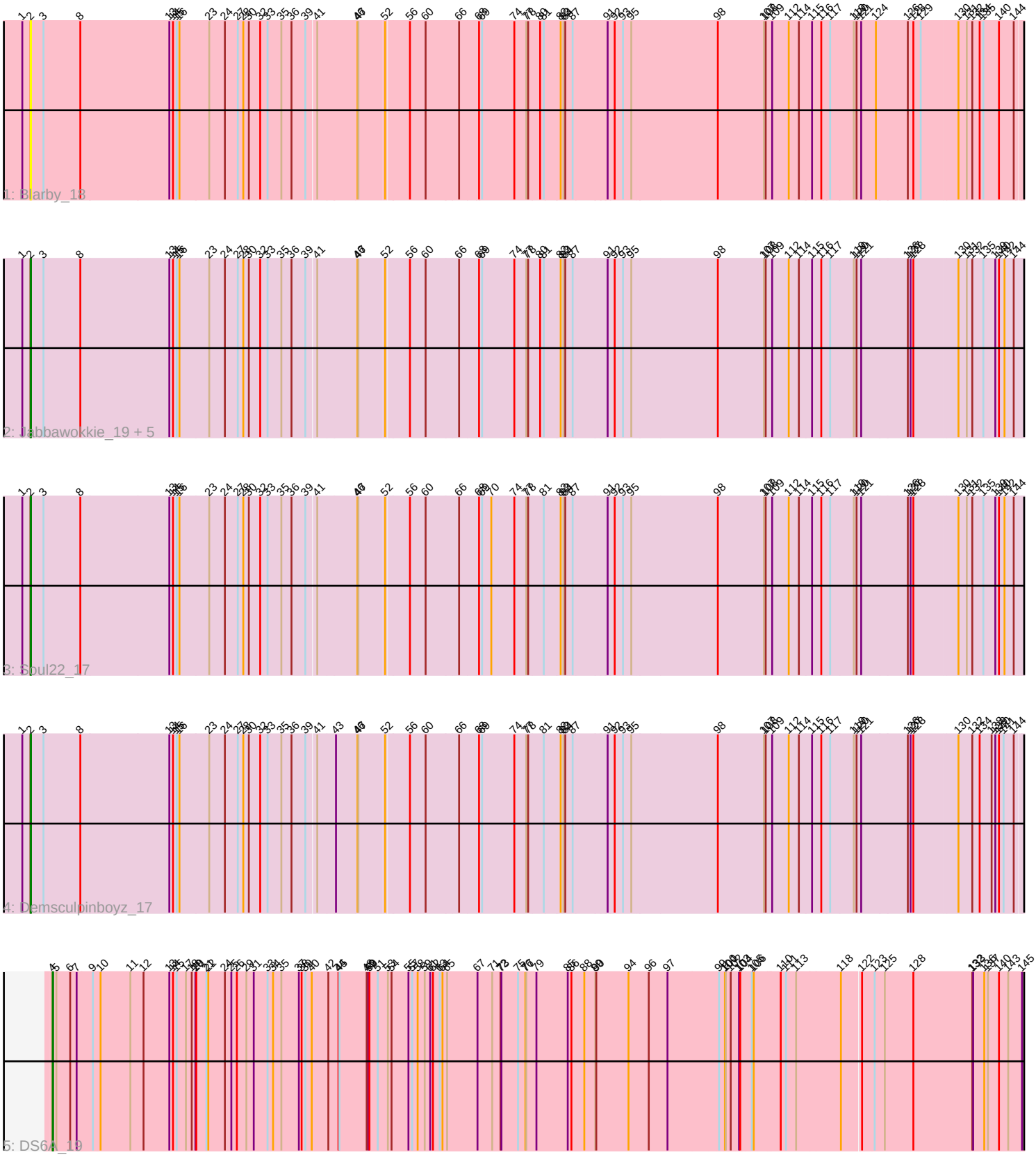
Zoomed Pham 348261



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 348261 Report

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

Pham number 348261 has 10 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Blarby_18
• Track 2 : Jabbawokkie_19, SilverChicken_17, Yoshi_17, Avani_17, Che9d_17, Zapner_18
• Track 3 : Soul22_17
• Track 4 : Demsculpinboyz_17
• Track 5 : DS6A_19

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 7 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Avani_17, Blarby_18, Che9d_17, Demsculpinboyz_17, Jabbawokkie_19, SilverChicken_17, Soul22_17, Yoshi_17, Zapner_18,

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

Genes that do not have the "Most Annotated" start:
• DS6A_19,

Summary by start number:

Start 2:
• Found in 9 of 10 (90.0%) of genes in pham
• Manual Annotations of this start: 7 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Avani_17 (F2), Blarby_18 (F), Che9d_17 (F2), Demsculpinboyz_17 (F2), Jabbawokkie_19 (F2), SilverChicken_17 (F2), Soul22_17 (F2), Yoshi_17 (F2), Zapner_18 (F2),

Start 4:
• Found in 1 of 10 (10.0%) of genes in pham

• Manual Annotations of this start: 1 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DS6A_19 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: F2, singleton, F,

Info for manual annotations of cluster F2:
•Start number 2 was manually annotated 7 times for cluster F2.

Gene Information:

Gene: Avani_17 Start: 9265, Stop: 12816, Start Num: 2
Candidate Starts for Avani_17:
(1, 9238), (Start: 2 @9265 has 7 MA's), (3, 9307), (8, 9427), (13, 9715), (14, 9727), (15, 9739), (16, 9748), (23, 9844), (24, 9895), (27, 9937), (28, 9955), (30, 9973), (32, 10009), (33, 10033), (35, 10078), (36, 10111), (39, 10156), (41, 10186), (46, 10309), (47, 10312), (52, 10393), (56, 10465), (60, 10516), (66, 10621), (68, 10681), (69, 10690), (74, 10795), (77, 10834), (78, 10840), (80, 10876), (81, 10888), (82, 10939), (83, 10948), (84, 10954), (87, 10978), (91, 11086), (92, 11107), (93, 11134), (95, 11161), (98, 11434), (107, 11584), (108, 11590), (109, 11611), (112, 11665), (114, 11698), (115, 11740), (116, 11770), (117, 11797), (119, 11872), (120, 11881), (121, 11896), (126, 12046), (127, 12055), (128, 12064), (130, 12202), (131, 12229), (132, 12247), (135, 12283), (139, 12322), (140, 12334), (142, 12352), (144, 12382), (148, 12454), (152, 12553), (153, 12610), (154, 12625), (160, 12679), (162, 12688), (163, 12700), (165, 12721), (166, 12730), (168, 12745), (169, 12757), (170, 12775), (172, 12793),

Gene: Blarby_18 Start: 9789, Stop: 13334, Start Num: 2
Candidate Starts for Blarby_18:
(1, 9762), (Start: 2 @9789 has 7 MA's), (3, 9831), (8, 9951), (13, 10239), (14, 10251), (15, 10263), (16, 10272), (23, 10368), (24, 10419), (27, 10461), (28, 10479), (30, 10497), (32, 10533), (33, 10557), (35, 10602), (36, 10635), (39, 10680), (41, 10710), (46, 10833), (47, 10836), (52, 10917), (56, 10989), (60, 11040), (66, 11145), (68, 11205), (69, 11214), (74, 11319), (77, 11358), (78, 11364), (80, 11400), (81, 11412), (82, 11463), (83, 11472), (84, 11478), (87, 11502), (91, 11610), (92, 11631), (93, 11658), (95, 11685), (98, 11958), (107, 12108), (108, 12114), (109, 12135), (112, 12189), (114, 12222), (115, 12264), (116, 12294), (117, 12321), (119, 12396), (120, 12405), (121, 12420), (124, 12468), (126, 12570), (128, 12588), (129, 12612), (130, 12726), (131, 12753), (132, 12771), (134, 12795), (135, 12807), (140, 12858), (144, 12906), (147, 12951), (148, 12975), (150, 13029), (153, 13128), (154, 13143), (157, 13179), (160, 13197), (163, 13218), (165, 13239), (166, 13248), (168, 13263), (169, 13275), (170, 13293), (172, 13311),

Gene: Che9d_17 Start: 9273, Stop: 12824, Start Num: 2
Candidate Starts for Che9d_17:
(1, 9246), (Start: 2 @9273 has 7 MA's), (3, 9315), (8, 9435), (13, 9723), (14, 9735), (15, 9747), (16, 9756), (23, 9852), (24, 9903), (27, 9945), (28, 9963), (30, 9981), (32, 10017), (33, 10041), (35, 10086), (36, 10119), (39, 10164), (41, 10194), (46, 10317), (47, 10320), (52, 10401), (56, 10473), (60, 10524), (66, 10629), (68, 10689), (69, 10698), (74, 10803), (77, 10842), (78, 10848), (80, 10884), (81, 10896), (82, 10947), (83, 10956), (84, 10962), (87, 10986), (91, 11094), (92, 11115), (93, 11142), (95, 11169), (98, 11442), (107, 11592), (108, 11598), (109, 11619), (112, 11673), (114, 11706), (115, 11748), (116, 11778), (117, 11805), (119, 11880), (120, 11889), (121, 11904), (126, 12054), (127, 12063), (128,

12072), (130, 12210), (131, 12237), (132, 12255), (135, 12291), (139, 12330), (140, 12342), (142, 12360), (144, 12390), (148, 12462), (152, 12561), (153, 12618), (154, 12633), (160, 12687), (162, 12696), (163, 12708), (165, 12729), (166, 12738), (168, 12753), (169, 12765), (170, 12783), (172, 12801),

Gene: DS6A_19 Start: 12375, Stop: 16001, Start Num: 4
Candidate Starts for DS6A_19:
(Start: 4 @12375 has 1 MA's), (5, 12384), (6, 12426), (7, 12444), (9, 12492), (10, 12516), (11, 12609), (12, 12651), (13, 12735), (14, 12747), (15, 12759), (17, 12789), (18, 12807), (19, 12819), (20, 12822), (21, 12855), (22, 12861), (24, 12915), (25, 12936), (26, 12954), (29, 12984), (31, 13008), (33, 13053), (34, 13071), (35, 13098), (37, 13155), (38, 13164), (39, 13176), (40, 13197), (42, 13251), (44, 13284), (45, 13287), (48, 13374), (49, 13377), (50, 13380), (51, 13407), (53, 13440), (54, 13452), (55, 13506), (57, 13518), (58, 13536), (59, 13554), (61, 13572), (62, 13581), (63, 13602), (64, 13611), (65, 13626), (67, 13725), (71, 13773), (72, 13800), (73, 13803), (75, 13857), (76, 13881), (77, 13884), (79, 13917), (85, 14019), (86, 14031), (88, 14073), (89, 14109), (90, 14112), (94, 14217), (96, 14283), (97, 14343), (99, 14502), (100, 14520), (101, 14523), (102, 14538), (103, 14559), (104, 14562), (105, 14598), (106, 14604), (110, 14685), (111, 14700), (113, 14733), (118, 14877), (122, 14937), (123, 14976), (125, 15009), (128, 15102), (132, 15294), (133, 15297), (136, 15333), (137, 15345), (140, 15381), (143, 15411), (145, 15456), (146, 15471), (149, 15558), (151, 15621), (153, 15702), (155, 15726), (156, 15735), (158, 15759), (159, 15771), (161, 15777), (164, 15807), (166, 15831), (167, 15840), (169, 15870), (171, 15900), (173, 15915), (174, 15939), (175, 15951), (176, 15969), (177, 15975), (178, 15978),

Gene: Demsculpinboyz_17 Start: 9264, Stop: 12809, Start Num: 2
Candidate Starts for Demsculpinboyz_17:
(1, 9237), (Start: 2 @9264 has 7 MA's), (3, 9306), (8, 9426), (13, 9714), (14, 9726), (15, 9738), (16, 9747), (23, 9843), (24, 9894), (27, 9936), (28, 9954), (30, 9972), (32, 10008), (33, 10032), (35, 10077), (36, 10110), (39, 10155), (41, 10185), (43, 10242), (46, 10308), (47, 10311), (52, 10392), (56, 10464), (60, 10515), (66, 10620), (68, 10680), (69, 10689), (74, 10794), (77, 10833), (78, 10839), (81, 10887), (82, 10938), (83, 10947), (84, 10953), (87, 10977), (91, 11085), (92, 11106), (93, 11133), (95, 11160), (98, 11433), (107, 11583), (108, 11589), (109, 11610), (112, 11664), (114, 11697), (115, 11739), (116, 11769), (117, 11796), (119, 11871), (120, 11880), (121, 11895), (126, 12045), (127, 12054), (128, 12063), (130, 12201), (132, 12246), (134, 12270), (138, 12309), (139, 12321), (140, 12333), (141, 12348), (144, 12381), (147, 12426), (148, 12450), (150, 12504), (153, 12603), (154, 12618), (160, 12672), (162, 12681), (163, 12693), (165, 12714), (166, 12723), (168, 12738), (169, 12750), (170, 12768), (172, 12786),

Gene: Jabbawokkie_19 Start: 9788, Stop: 13339, Start Num: 2
Candidate Starts for Jabbawokkie_19:
(1, 9761), (Start: 2 @9788 has 7 MA's), (3, 9830), (8, 9950), (13, 10238), (14, 10250), (15, 10262), (16, 10271), (23, 10367), (24, 10418), (27, 10460), (28, 10478), (30, 10496), (32, 10532), (33, 10556), (35, 10601), (36, 10634), (39, 10679), (41, 10709), (46, 10832), (47, 10835), (52, 10916), (56, 10988), (60, 11039), (66, 11144), (68, 11204), (69, 11213), (74, 11318), (77, 11357), (78, 11363), (80, 11399), (81, 11411), (82, 11462), (83, 11471), (84, 11477), (87, 11501), (91, 11609), (92, 11630), (93, 11657), (95, 11684), (98, 11957), (107, 12107), (108, 12113), (109, 12134), (112, 12188), (114, 12221), (115, 12263), (116, 12293), (117, 12320), (119, 12395), (120, 12404), (121, 12419), (126, 12569), (127, 12578), (128, 12587), (130, 12725), (131, 12752), (132, 12770), (135, 12806), (139, 12845), (140, 12857), (142, 12875), (144, 12905), (148, 12977), (152, 13076), (153, 13133), (154, 13148), (160, 13202), (162, 13211), (163, 13223), (165, 13244), (166, 13253), (168, 13268), (169, 13280), (170, 13298), (172, 13316),

Gene: SilverChicken_17 Start: 9265, Stop: 12816, Start Num: 2
Candidate Starts for SilverChicken_17:

(1, 9238), (Start: 2 @9265 has 7 MA's), (3, 9307), (8, 9427), (13, 9715), (14, 9727), (15, 9739), (16, 9748), (23, 9844), (24, 9895), (27, 9937), (28, 9955), (30, 9973), (32, 10009), (33, 10033), (35, 10078), (36, 10111), (39, 10156), (41, 10186), (46, 10309), (47, 10312), (52, 10393), (56, 10465), (60, 10516), (66, 10621), (68, 10681), (69, 10690), (74, 10795), (77, 10834), (78, 10840), (80, 10876), (81, 10888), (82, 10939), (83, 10948), (84, 10954), (87, 10978), (91, 11086), (92, 11107), (93, 11134), (95, 11161), (98, 11434), (107, 11584), (108, 11590), (109, 11611), (112, 11665), (114, 11698), (115, 11740), (116, 11770), (117, 11797), (119, 11872), (120, 11881), (121, 11896), (126, 12046), (127, 12055), (128, 12064), (130, 12202), (131, 12229), (132, 12247), (135, 12283), (139, 12322), (140, 12334), (142, 12352), (144, 12382), (148, 12454), (152, 12553), (153, 12610), (154, 12625), (160, 12679), (162, 12688), (163, 12700), (165, 12721), (166, 12730), (168, 12745), (169, 12757), (170, 12775), (172, 12793),

Gene: Soul22_17 Start: 9263, Stop: 12814, Start Num: 2
Candidate Starts for Soul22_17:
(1, 9236), (Start: 2 @9263 has 7 MA's), (3, 9305), (8, 9425), (13, 9713), (14, 9725), (15, 9737), (16, 9746), (23, 9842), (24, 9893), (27, 9935), (28, 9953), (30, 9971), (32, 10007), (33, 10031), (35, 10076), (36, 10109), (39, 10154), (41, 10184), (46, 10307), (47, 10310), (52, 10391), (56, 10463), (60, 10514), (66, 10619), (68, 10679), (69, 10688), (70, 10718), (74, 10793), (77, 10832), (78, 10838), (81, 10886), (82, 10937), (83, 10946), (84, 10952), (87, 10976), (91, 11084), (92, 11105), (93, 11132), (95, 11159), (98, 11432), (107, 11582), (108, 11588), (109, 11609), (112, 11663), (114, 11696), (115, 11738), (116, 11768), (117, 11795), (119, 11870), (120, 11879), (121, 11894), (126, 12044), (127, 12053), (128, 12062), (130, 12200), (131, 12227), (132, 12245), (135, 12281), (139, 12320), (140, 12332), (142, 12350), (144, 12380), (148, 12452), (152, 12551), (153, 12608), (154, 12623), (160, 12677), (162, 12686), (163, 12698), (165, 12719), (166, 12728), (168, 12743), (169, 12755), (170, 12773), (172, 12791),

Gene: Yoshi_17 Start: 9264, Stop: 12815, Start Num: 2
Candidate Starts for Yoshi_17:
(1, 9237), (Start: 2 @9264 has 7 MA's), (3, 9306), (8, 9426), (13, 9714), (14, 9726), (15, 9738), (16, 9747), (23, 9843), (24, 9894), (27, 9936), (28, 9954), (30, 9972), (32, 10008), (33, 10032), (35, 10077), (36, 10110), (39, 10155), (41, 10185), (46, 10308), (47, 10311), (52, 10392), (56, 10464), (60, 10515), (66, 10620), (68, 10680), (69, 10689), (74, 10794), (77, 10833), (78, 10839), (80, 10875), (81, 10887), (82, 10938), (83, 10947), (84, 10953), (87, 10977), (91, 11085), (92, 11106), (93, 11133), (95, 11160), (98, 11433), (107, 11583), (108, 11589), (109, 11610), (112, 11664), (114, 11697), (115, 11739), (116, 11769), (117, 11796), (119, 11871), (120, 11880), (121, 11895), (126, 12045), (127, 12054), (128, 12063), (130, 12201), (131, 12228), (132, 12246), (135, 12282), (139, 12321), (140, 12333), (142, 12351), (144, 12381), (148, 12453), (152, 12552), (153, 12609), (154, 12624), (160, 12678), (162, 12687), (163, 12699), (165, 12720), (166, 12729), (168, 12744), (169, 12756), (170, 12774), (172, 12792),

Gene: Zapner_18 Start: 9789, Stop: 13340, Start Num: 2
Candidate Starts for Zapner_18:
(1, 9762), (Start: 2 @9789 has 7 MA's), (3, 9831), (8, 9951), (13, 10239), (14, 10251), (15, 10263), (16, 10272), (23, 10368), (24, 10419), (27, 10461), (28, 10479), (30, 10497), (32, 10533), (33, 10557), (35, 10602), (36, 10635), (39, 10680), (41, 10710), (46, 10833), (47, 10836), (52, 10917), (56, 10989), (60, 11040), (66, 11145), (68, 11205), (69, 11214), (74, 11319), (77, 11358), (78, 11364), (80, 11400), (81, 11412), (82, 11463), (83, 11472), (84, 11478), (87, 11502), (91, 11610), (92, 11631), (93, 11658), (95, 11685), (98, 11958), (107, 12108), (108, 12114), (109, 12135), (112, 12189), (114, 12222), (115, 12264), (116, 12294), (117, 12321), (119, 12396), (120, 12405), (121, 12420), (126, 12570), (127, 12579), (128, 12588), (130, 12726), (131, 12753), (132, 12771), (135, 12807), (139, 12846), (140, 12858), (142, 12876), (144, 12906), (148, 12978), (152, 13077), (153, 13134), (154, 13149), (160, 13203), (162, 13212), (163, 13224), (165, 13245), (166, 13254), (168, 13269), (169, 13281), (170, 13299), (172, 13317),