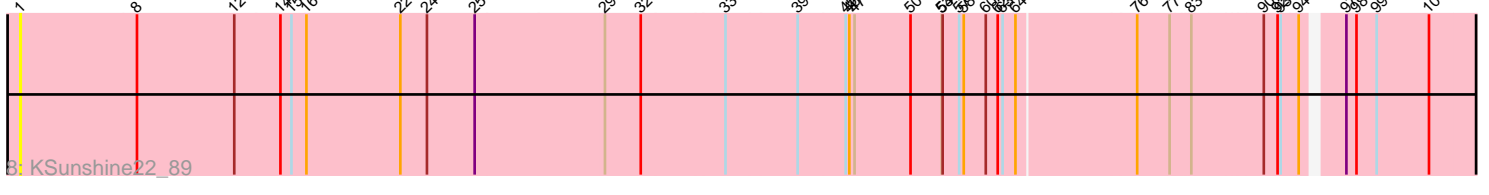
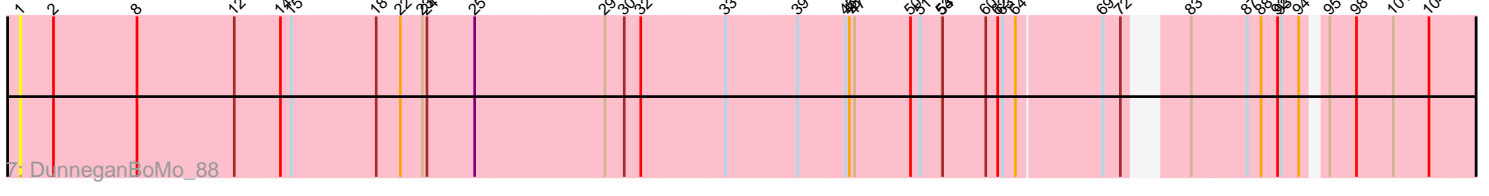
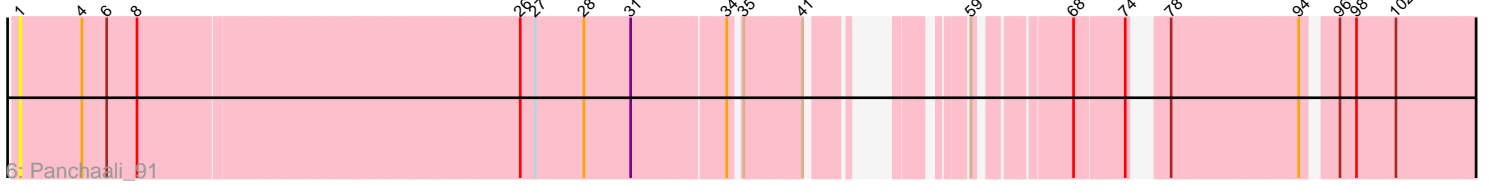
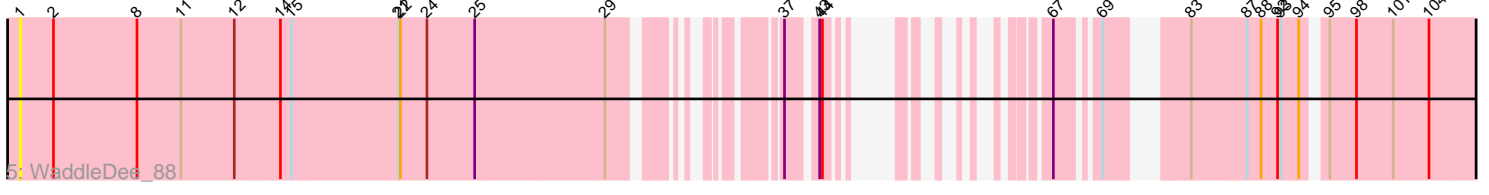
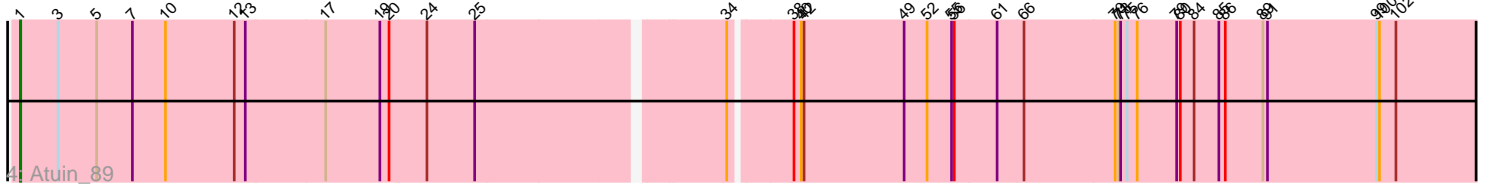
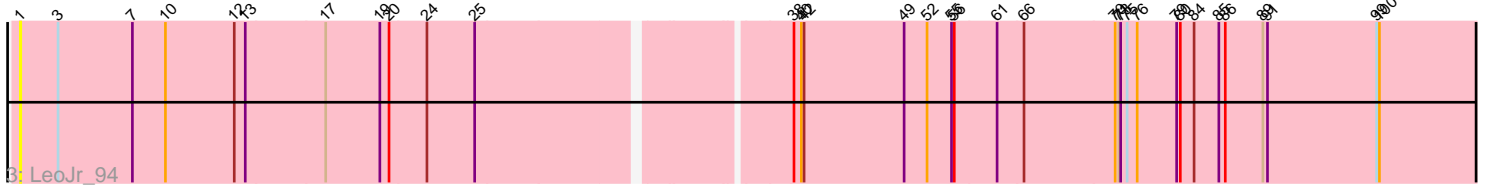
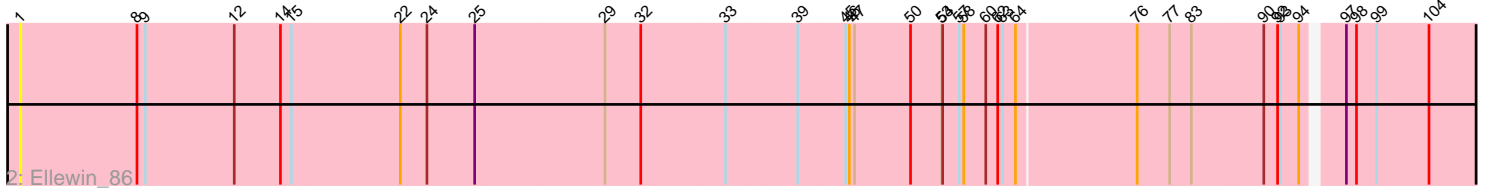
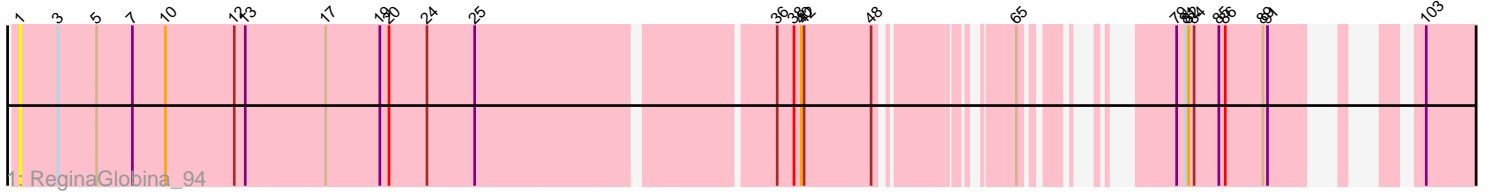


Zoomed Pham 213255



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 213255 Report

This analysis was run 02/22/25 on database version 588.

Pham number 213255 has 8 members, 7 are drafts.

Phages represented in each track:

- Track 1 : ReginaGlobina_94
- Track 2 : Ellewin_86
- Track 3 : LeoJr_94
- Track 4 : Atuin_89
- Track 5 : WaddleDee_88
- Track 6 : Panchaali_91
- Track 7 : DunneganBoMo_88
- Track 8 : KSunshine22_89

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 1 of the 1 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Atuin_89, DunneganBoMo_88, Ellewin_86, KSunshine22_89, LeoJr_94, Panchaali_91, ReginaGlobina_94, WaddleDee_88,

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 8 of 8 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 1
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Atuin_89 (FC), DunneganBoMo_88 (FC), Ellewin_86 (FC), KSunshine22_89 (FC), LeoJr_94 (FC), Panchaali_91 (FC), ReginaGlobina_94 (FC), WaddleDee_88 (FC),

Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:

- Start number 1 was manually annotated 1 time for cluster FC.

Gene Information:

Gene: Atuin_89 Start: 62854, Stop: 76545, Start Num: 1

Candidate Starts for Atuin_89:

(Start: 1 @62854 has 1 MA's), (3, 62977), (5, 63103), (7, 63220), (10, 63328), (12, 63553), (13, 63589), (17, 63850), (19, 64027), (20, 64051), (24, 64174), (25, 64330), (34, 65092), (38, 65275), (40, 65299), (42, 65308), (49, 65635), (52, 65710), (55, 65782), (56, 65791), (61, 65929), (66, 66016), (70, 66313), (71, 66325), (73, 66331), (75, 66352), (76, 66385), (79, 66514), (80, 66526), (84, 66571), (85, 66652), (86, 66673), (89, 66796), (91, 66811), (99, 67168), (100, 67177), (102, 67231), (106, 67546), (108, 67615), (110, 67630), (112, 67672), (119, 67972), (121, 68011), (123, 68074), (124, 68128), (130, 68344), (131, 68398), (139, 68572), (141, 68602), (142, 68689), (146, 68797), (147, 68809), (152, 68851), (154, 68917), (158, 69094), (159, 69136), (161, 69337), (163, 69493), (164, 69514), (165, 69526), (167, 69658), (168, 69802), (170, 70009), (172, 70099), (173, 70141), (176, 70213), (178, 70324), (179, 70414), (181, 70483), (184, 70708), (186, 70759), (190, 71002), (194, 71140), (196, 71305), (198, 71428), (200, 71506), (201, 71527), (202, 71566), (207, 72103), (208, 72139), (210, 72187), (212, 72409), (221, 72913), (225, 73141), (228, 73225), (229, 73249), (230, 73267), (235, 73456), (236, 73459), (240, 73756), (242, 73927), (247, 74113), (248, 74119), (253, 74347), (254, 74356), (255, 74362), (256, 74371), (257, 74377), (258, 74404), (259, 74431), (260, 74458), (263, 74587), (265, 74641), (266, 74749), (267, 74755), (268, 74782), (270, 74803), (271, 74806), (274, 74884), (277, 74968), (279, 74986), (281, 75160), (285, 75274), (286, 75406), (287, 75475), (290, 75574), (291, 75604), (293, 75637), (294, 75655), (297, 75736), (298, 75802), (301, 75838), (306, 76204), (310, 76366), (311, 76375),

Gene: DunneganBoMo_88 Start: 59721, Stop: 72473, Start Num: 1

Candidate Starts for DunneganBoMo_88:

(Start: 1 @59721 has 1 MA's), (2, 59829), (8, 60099), (12, 60417), (14, 60567), (15, 60603), (18, 60879), (22, 60957), (23, 61029), (24, 61044), (25, 61200), (29, 61617), (30, 61680), (32, 61734), (33, 62007), (39, 62238), (45, 62394), (46, 62406), (47, 62421), (50, 62604), (51, 62637), (53, 62706), (54, 62709), (60, 62850), (62, 62889), (63, 62904), (64, 62946), (69, 63216), (72, 63270), (83, 63378), (87, 63540), (88, 63585), (92, 63639), (93, 63648), (94, 63702), (95, 63756), (98, 63843), (101, 63963), (104, 64080), (111, 64392), (114, 64455), (116, 64632), (120, 64755), (121, 64776), (122, 64818), (125, 64968), (127, 65022), (128, 65034), (130, 65097), (133, 65271), (135, 65346), (140, 65496), (142, 65661), (148, 65715), (149, 65727), (153, 65844), (154, 65889), (155, 65898), (156, 65997), (157, 66063), (158, 66066), (159, 66108), (162, 66390), (163, 66462), (165, 66495), (168, 66771), (171, 67038), (177, 67227), (178, 67293), (180, 67413), (183, 67653), (188, 67875), (190, 67974), (191, 68013), (196, 68277), (200, 68478), (201, 68499), (202, 68538), (203, 68541), (210, 68760), (217, 68865), (218, 68949), (231, 69267), (232, 69348), (233, 69396), (234, 69408), (238, 69555), (240, 69729), (241, 69852), (243, 70017), (252, 70311), (253, 70332), (262, 70509), (263, 70572), (266, 70734), (267, 70740), (272, 70839), (273, 70842), (276, 70941), (277, 70953), (278, 70968), (279, 70971), (280, 71031), (282, 71145), (284, 71175), (286, 71355), (288, 71460), (289, 71463), (290, 71496), (295, 71598), (302, 71814), (304, 71907), (305, 72003), (308, 72189), (311, 72297), (312, 72402),

Gene: Ellewin_86 Start: 59301, Stop: 71885, Start Num: 1

Candidate Starts for Ellewin_86:

(Start: 1 @59301 has 1 MA's), (8, 59679), (9, 59706), (12, 59997), (14, 60147), (15, 60183), (22, 60537), (24, 60624), (25, 60780), (29, 61197), (32, 61314), (33, 61587), (39, 61818), (45, 61974), (46, 61986), (47, 62001), (50, 62184), (53, 62286), (54, 62289), (57, 62343), (58, 62358), (60, 62430), (62, 62469), (63, 62484), (64, 62526), (76, 62904), (77, 63003), (83, 63066), (90, 63282), (92, 63327), (93, 63336), (94, 63390), (97, 63498), (98, 63531), (99, 63597), (104, 63768), (116, 64317), (120, 64440), (122, 64503), (125, 64653), (132, 64857), (134, 64878), (136, 64911), (142, 65073), (148, 65127), (149, 65139), (156, 65409), (158, 65478), (159, 65520), (163, 65874), (165, 65907), (168, 66183), (169, 66327), (175, 66552), (177, 66639), (178, 66705), (182, 66891), (186, 67143), (188, 67287), (190, 67386), (191, 67425), (192, 67464), (195, 67665), (196, 67689), (200, 67890), (201, 67911), (202, 67950), (203, 67953), (210, 68172), (217, 68277), (218, 68361), (231, 68679), (233, 68808), (234, 68820), (238, 68967), (239, 69024), (240, 69141), (241, 69264), (243, 69429), (245, 69435), (252, 69723), (253, 69744), (261, 69894), (262, 69921), (263, 69984), (266, 70146), (267, 70152), (272, 70251), (273, 70254), (276, 70353), (277, 70365), (279, 70383), (280, 70443), (282, 70557), (286, 70767), (288, 70872), (290, 70908), (295, 71010), (296, 71025), (299, 71160), (302, 71226), (304, 71319), (305, 71415), (307, 71595), (308, 71601), (311, 71709), (312, 71814),

Gene: KSunshine22_89 Start: 60934, Stop: 73530, Start Num: 1

Candidate Starts for KSunshine22_89:

(Start: 1 @60934 has 1 MA's), (8, 61312), (12, 61630), (14, 61780), (15, 61816), (16, 61864), (22, 62170), (24, 62257), (25, 62413), (29, 62830), (32, 62947), (33, 63220), (39, 63451), (45, 63607), (46, 63619), (47, 63634), (50, 63817), (53, 63919), (54, 63922), (57, 63976), (58, 63991), (60, 64063), (62, 64102), (63, 64117), (64, 64159), (76, 64537), (77, 64636), (83, 64699), (90, 64915), (92, 64960), (93, 64969), (94, 65023), (97, 65131), (98, 65164), (99, 65230), (104, 65401), (116, 65950), (120, 66073), (122, 66136), (132, 66502), (134, 66523), (136, 66556), (142, 66718), (148, 66772), (149, 66784), (153, 66901), (154, 66946), (155, 66955), (156, 67054), (158, 67123), (159, 67165), (163, 67519), (165, 67552), (168, 67828), (169, 67972), (175, 68197), (177, 68284), (178, 68350), (182, 68536), (188, 68932), (190, 69031), (191, 69070), (192, 69109), (195, 69310), (196, 69334), (200, 69535), (201, 69556), (202, 69595), (203, 69598), (210, 69817), (217, 69922), (218, 70006), (231, 70324), (232, 70405), (233, 70453), (234, 70465), (238, 70612), (239, 70669), (240, 70786), (241, 70909), (243, 71074), (245, 71080), (252, 71368), (253, 71389), (261, 71539), (262, 71566), (263, 71629), (266, 71791), (267, 71797), (272, 71896), (273, 71899), (276, 71998), (277, 72010), (278, 72025), (279, 72028), (280, 72088), (282, 72202), (284, 72232), (286, 72412), (288, 72517), (289, 72520), (290, 72553), (295, 72655), (302, 72871), (304, 72964), (305, 73060), (307, 73240), (308, 73246), (311, 73354), (312, 73459),

Gene: LeoJr_94 Start: 62982, Stop: 76781, Start Num: 1

Candidate Starts for LeoJr_94:

(Start: 1 @62982 has 1 MA's), (3, 63105), (7, 63348), (10, 63456), (12, 63681), (13, 63717), (17, 63978), (19, 64155), (20, 64179), (24, 64302), (25, 64458), (38, 65403), (40, 65427), (42, 65436), (49, 65763), (52, 65838), (55, 65910), (56, 65919), (61, 66057), (66, 66144), (70, 66441), (71, 66453), (73, 66459), (75, 66480), (76, 66513), (79, 66642), (80, 66654), (84, 66699), (85, 66780), (86, 66801), (89, 66924), (91, 66939), (99, 67296), (100, 67305), (105, 67623), (106, 67674), (108, 67743), (110, 67758), (112, 67800), (119, 68100), (121, 68139), (124, 68256), (130, 68472), (131, 68526), (137, 68625), (139, 68700), (141, 68730), (142, 68817), (146, 68925), (147, 68937), (152, 69087), (154, 69153), (158, 69330), (159, 69372), (163, 69729), (164, 69750), (165, 69762), (167, 69894), (168, 70038), (170, 70245), (172, 70335), (173, 70377), (176, 70449), (178, 70560), (179, 70650), (181, 70719), (184, 70944), (186, 70995), (190, 71238), (194, 71376), (196, 71541), (198, 71664), (200, 71742), (201, 71763), (202, 71802), (207, 72339), (208, 72375), (210, 72423), (212, 72645), (221, 73149), (225, 73377), (228, 73461), (229, 73485), (230, 73503), (235, 73692), (236, 73695), (240, 73992), (242, 74163), (247, 74349), (248, 74355), (253, 74583), (254, 74592), (255, 74598), (256, 74607), (257, 74613), (258, 74640), (259, 74667), (260, 74694), (263, 74823), (265, 74877), (266, 74985), (267, 74991), (268, 75018), (270, 75039), (271, 75042), (274, 75120), (277, 75204), (279,

75222), (281, 75396), (285, 75510), (286, 75642), (287, 75711), (290, 75810), (291, 75840), (293, 75873), (294, 75891), (297, 75972), (298, 76038), (301, 76074), (306, 76440), (310, 76602), (311, 76611),

Gene: Panchaali_91 Start: 60813, Stop: 73469, Start Num: 1

Candidate Starts for Panchaali_91:

(Start: 1 @60813 has 1 MA's), (4, 61014), (6, 61095), (8, 61191), (26, 62340), (27, 62388), (28, 62547), (31, 62700), (34, 62985), (35, 63009), (41, 63189), (59, 63438), (68, 63675), (74, 63816), (78, 63873), (94, 64272), (96, 64356), (98, 64410), (102, 64539), (107, 64878), (109, 64908), (110, 64917), (113, 64989), (115, 65037), (117, 65160), (118, 65175), (126, 65490), (129, 65577), (138, 65760), (142, 65907), (143, 65913), (144, 65928), (149, 65970), (150, 66012), (151, 66033), (158, 66309), (159, 66351), (160, 66447), (163, 66705), (165, 66738), (166, 66828), (167, 66870), (168, 67014), (171, 67287), (174, 67383), (177, 67476), (178, 67542), (185, 67935), (186, 67980), (187, 68055), (189, 68217), (190, 68223), (194, 68361), (196, 68526), (197, 68574), (198, 68649), (200, 68727), (201, 68748), (202, 68787), (204, 68871), (205, 69096), (206, 69114), (209, 69159), (213, 69417), (214, 69465), (216, 69540), (219, 69807), (220, 69855), (223, 69930), (224, 69957), (226, 70137), (227, 70188), (237, 70485), (244, 71031), (246, 71055), (249, 71190), (250, 71268), (251, 71307), (253, 71343), (264, 71613), (269, 71790), (273, 71847), (275, 71940), (277, 71958), (280, 72036), (283, 72159), (286, 72357), (288, 72462), (290, 72498), (292, 72528), (295, 72600), (300, 72753), (303, 72849), (304, 72909), (305, 73005), (309, 73281),

Gene: ReginaGlobina_94 Start: 63735, Stop: 76346, Start Num: 1

Candidate Starts for ReginaGlobina_94:

(Start: 1 @63735 has 1 MA's), (3, 63858), (5, 63984), (7, 64101), (10, 64209), (12, 64434), (13, 64470), (17, 64731), (19, 64908), (20, 64932), (24, 65055), (25, 65211), (36, 66102), (38, 66156), (40, 66180), (42, 66189), (48, 66408), (65, 66690), (79, 66930), (81, 66960), (82, 66969), (84, 66987), (85, 67068), (86, 67089), (89, 67212), (91, 67227), (103, 67476), (106, 67692), (108, 67761), (119, 68121), (121, 68160), (124, 68277), (130, 68493), (131, 68547), (137, 68646), (139, 68721), (141, 68751), (142, 68838), (154, 68904), (158, 69081), (159, 69123), (163, 69480), (164, 69501), (165, 69513), (167, 69645), (168, 69789), (172, 70095), (173, 70137), (176, 70209), (178, 70320), (181, 70479), (186, 70815), (187, 70890), (190, 71058), (193, 71169), (194, 71196), (196, 71361), (198, 71484), (199, 71508), (201, 71583), (202, 71622), (204, 71706), (211, 72147), (215, 72288), (220, 72684), (221, 72714), (222, 72723), (225, 72942), (229, 73050), (230, 73068), (235, 73257), (236, 73260), (240, 73557), (242, 73728), (247, 73914), (248, 73920), (253, 74148), (254, 74157), (255, 74163), (256, 74172), (257, 74178), (258, 74205), (259, 74232), (260, 74259), (263, 74388), (265, 74442), (266, 74550), (267, 74556), (268, 74583), (270, 74604), (271, 74607), (274, 74685), (277, 74769), (279, 74787), (281, 74961), (285, 75075), (286, 75207), (287, 75276), (290, 75375), (291, 75405), (293, 75438), (294, 75456), (297, 75537), (298, 75603), (301, 75639), (306, 76005), (310, 76167), (311, 76176),

Gene: WaddleDee_88 Start: 59576, Stop: 71659, Start Num: 1

Candidate Starts for WaddleDee_88:

(Start: 1 @59576 has 1 MA's), (2, 59684), (8, 59954), (11, 60098), (12, 60272), (14, 60422), (15, 60458), (21, 60806), (22, 60812), (24, 60899), (25, 61055), (29, 61472), (37, 61787), (43, 61853), (44, 61862), (67, 62078), (69, 62186), (83, 62348), (87, 62510), (88, 62555), (92, 62609), (93, 62618), (94, 62672), (95, 62726), (98, 62813), (101, 62933), (104, 63050), (111, 63362), (114, 63425), (116, 63602), (120, 63725), (121, 63746), (122, 63788), (125, 63938), (127, 63992), (128, 64004), (130, 64067), (133, 64241), (135, 64316), (140, 64466), (142, 64631), (145, 64685), (146, 64847), (148, 64901), (149, 64913), (153, 65030), (154, 65075), (155, 65084), (156, 65183), (157, 65249), (158, 65252), (159, 65294), (162, 65576), (163, 65648), (165, 65681), (168, 65957), (171, 66224), (177, 66413), (178, 66479), (180, 66599), (183, 66839), (188, 67061), (190, 67160), (191, 67199), (196, 67463), (200, 67664), (201, 67685), (202, 67724), (203, 67727), (210, 67946), (217, 68051), (218, 68135), (231, 68453), (232, 68534), (233, 68582), (234, 68594), (238, 68741), (240, 68915), (241,

69038), (243, 69203), (252, 69497), (253, 69518), (262, 69695), (263, 69758), (266, 69920), (267, 69926), (272, 70025), (273, 70028), (276, 70127), (277, 70139), (278, 70154), (279, 70157), (280, 70217), (282, 70331), (284, 70361), (286, 70541), (288, 70646), (289, 70649), (290, 70682), (295, 70784), (302, 71000), (304, 71093), (305, 71189), (308, 71375), (311, 71483), (312, 71588),