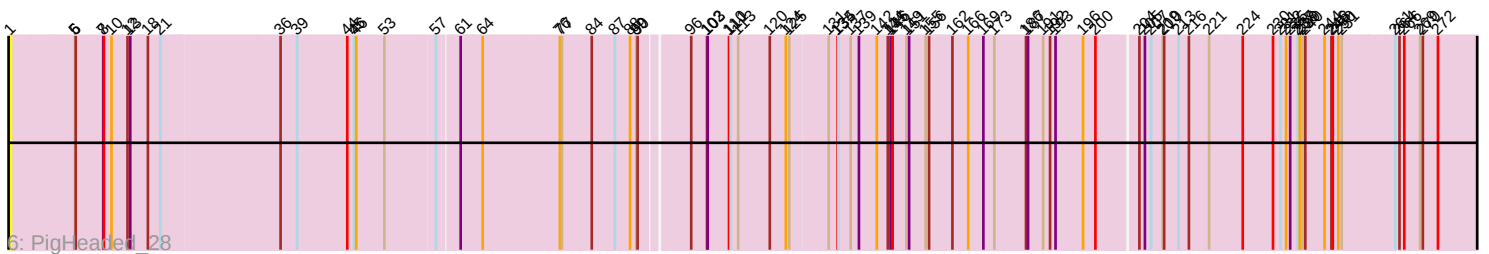
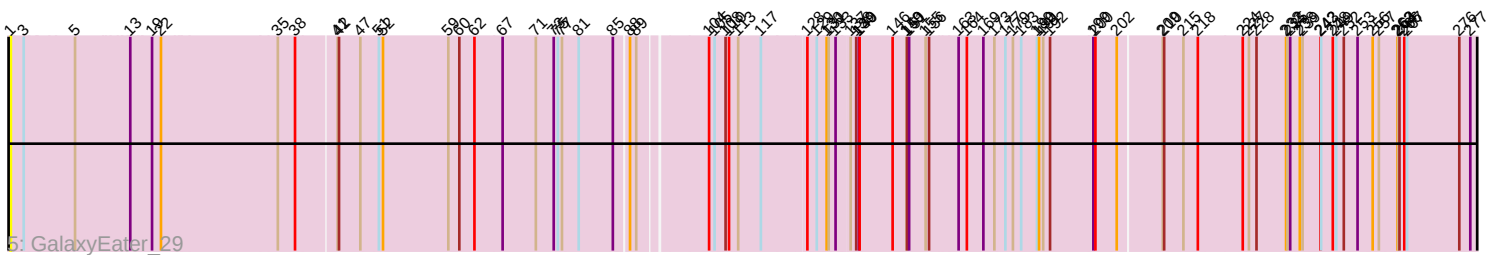
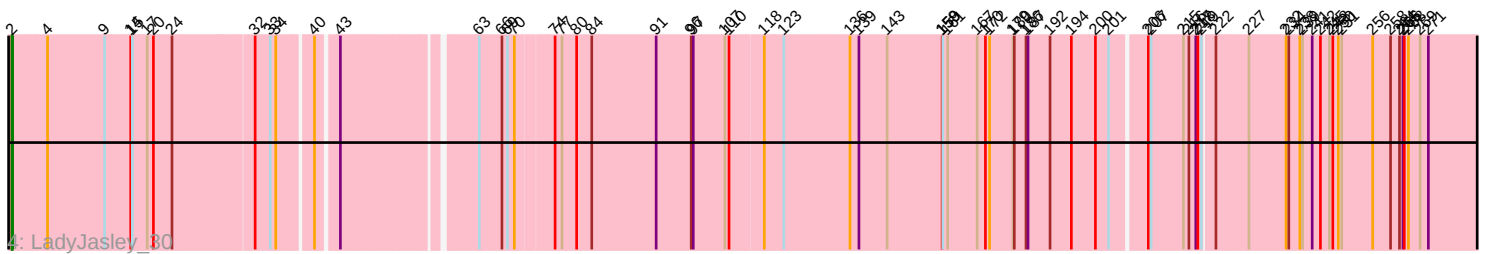
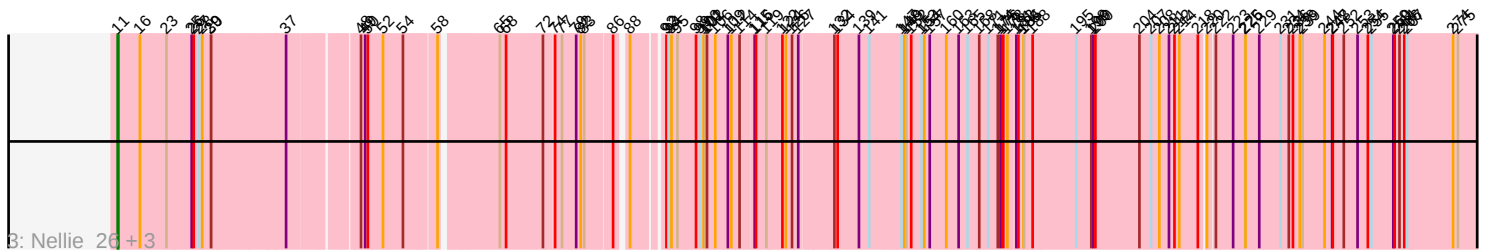
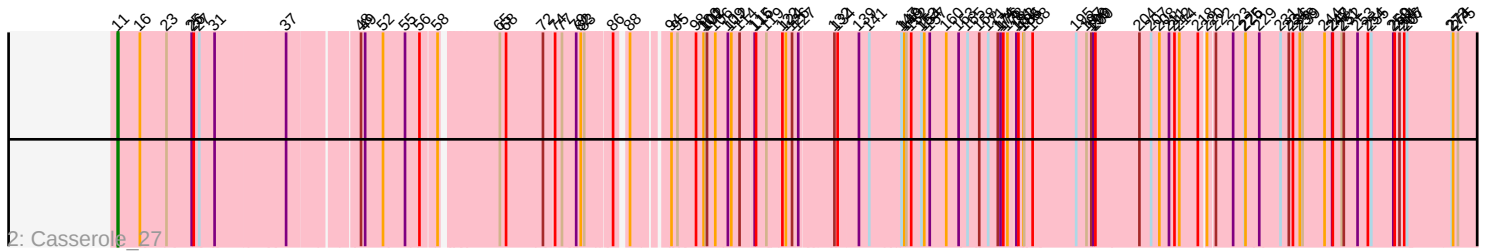
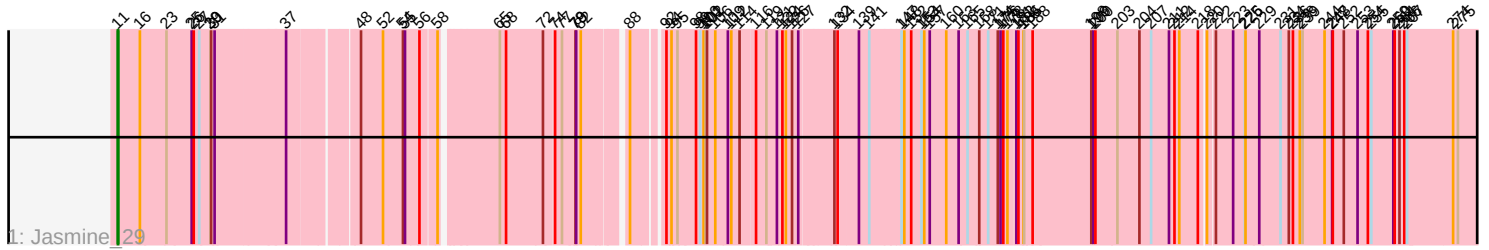


Pham 278860



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 278860 Report

This analysis was run 02/07/26 on database version 634.

Pham number 278860 has 9 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Jasmine_29
- Track 2 : Casserole_27
- Track 3 : Nellie_26, Adat_26, Brad_26, GurgleFerb_26
- Track 4 : LadyJasley_30
- Track 5 : GalaxyEater_29
- Track 6 : PigHeaded_28

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

The start number called the most often in the published annotations is 11, it was called in 6 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adat_26, Brad_26, Casserole_27, GurgleFerb_26, Jasmine_29, Nellie_26,

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

-

Genes that do not have the "Most Annotated" start:

- GalaxyEater_29, LadyJasley_30, PigHeaded_28,

Summary by start number:

Start 1:

- Found in 2 of 9 (22.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GalaxyEater_29 (UNK), PigHeaded_28 (UNK),

Start 2:

- Found in 1 of 9 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present

- Phage (with cluster) where this start called: LadyJasley_30 (AV),

Start 11:

- Found in 6 of 9 (66.7%) of genes in pham
- Manual Annotations of this start: 6 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adat_26 (AV), Brad_26 (AV), Casserole_27 (AV), GurgleFerb_26 (AV), Jasmine_29 (AV), Nellie_26 (AV),

Summary by clusters:

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

Info for manual annotations of cluster AV:

- Start number 2 was manually annotated 1 time for cluster AV.
- Start number 11 was manually annotated 6 times for cluster AV.

Gene Information:

Gene: Adat_26 Start: 20519, Stop: 25930, Start Num: 11

Candidate Starts for Adat_26:

(Start: 11 @20519 has 6 MA's), (16, 20615), (23, 20723), (25, 20831), (26, 20840), (27, 20864), (28, 20876), (29, 20912), (30, 20915), (37, 21221), (48, 21482), (49, 21500), (50, 21512), (52, 21578), (54, 21662), (58, 21782), (65, 22004), (68, 22031), (72, 22187), (74, 22226), (77, 22256), (79, 22313), (82, 22331), (83, 22346), (86, 22445), (88, 22481), (92, 22586), (93, 22595), (94, 22604), (95, 22628), (98, 22703), (99, 22721), (100, 22736), (101, 22745), (102, 22751), (106, 22787), (109, 22826), (112, 22841), (114, 22877), (115, 22931), (116, 22937), (119, 22982), (122, 23039), (124, 23054), (126, 23081), (127, 23096), (132, 23225), (134, 23237), (139, 23321), (141, 23366), (147, 23486), (148, 23498), (149, 23507), (152, 23528), (153, 23573), (154, 23585), (157, 23609), (160, 23681), (163, 23735), (165, 23771), (168, 23819), (171, 23855), (174, 23897), (175, 23909), (176, 23921), (178, 23939), (181, 23966), (182, 23975), (184, 23996), (185, 23999), (188, 24032), (195, 24221), (198, 24287), (199, 24296), (200, 24305), (204, 24494), (207, 24545), (208, 24581), (211, 24623), (212, 24647), (214, 24668), (218, 24749), (220, 24770), (222, 24794), (223, 24869), (225, 24920), (226, 24923), (229, 24980), (231, 25070), (234, 25106), (236, 25124), (238, 25154), (239, 25166), (244, 25262), (247, 25295), (248, 25298), (252, 25346), (253, 25406), (254, 25448), (255, 25463), (259, 25559), (260, 25565), (264, 25586), (266, 25607), (267, 25619), (274, 25805), (275, 25826),

Gene: Brad_26 Start: 20517, Stop: 25928, Start Num: 11

Candidate Starts for Brad_26:

(Start: 11 @20517 has 6 MA's), (16, 20613), (23, 20721), (25, 20829), (26, 20838), (27, 20862), (28, 20874), (29, 20910), (30, 20913), (37, 21219), (48, 21480), (49, 21498), (50, 21510), (52, 21576), (54, 21660), (58, 21780), (65, 22002), (68, 22029), (72, 22185), (74, 22224), (77, 22254), (79, 22311), (82, 22329), (83, 22344), (86, 22443), (88, 22479), (92, 22584), (93, 22593), (94, 22602), (95, 22626), (98, 22701), (99, 22719), (100, 22734), (101, 22743), (102, 22749), (106, 22785), (109, 22824), (112, 22839), (114, 22875), (115, 22929), (116, 22935), (119, 22980), (122, 23037), (124, 23052), (126, 23079), (127, 23094), (132, 23223), (134, 23235), (139, 23319), (141, 23364), (147, 23484), (148, 23496), (149, 23505), (152, 23526), (153, 23571), (154, 23583), (157, 23607), (160, 23679), (163, 23733), (165, 23769), (168, 23817), (171, 23853), (174, 23895), (175, 23907), (176, 23919), (178, 23937), (181, 23964), (182, 23973), (184, 23994), (185, 23997), (188, 24030), (195, 24219), (198, 24285), (199, 24294), (200, 24303), (204, 24492), (207, 24543), (208, 24579), (211, 24621), (212,

24645), (214, 24666), (218, 24747), (220, 24768), (222, 24792), (223, 24867), (225, 24918), (226, 24921), (229, 24978), (231, 25068), (234, 25104), (236, 25122), (238, 25152), (239, 25164), (244, 25260), (247, 25293), (248, 25296), (252, 25344), (253, 25404), (254, 25446), (255, 25461), (259, 25557), (260, 25563), (264, 25584), (266, 25605), (267, 25617), (274, 25803), (275, 25824),

Gene: Casserole_27 Start: 21807, Stop: 27218, Start Num: 11

Candidate Starts for Casserole_27:

(Start: 11 @21807 has 6 MA's), (16, 21903), (23, 22011), (25, 22119), (26, 22128), (27, 22152), (31, 22215), (37, 22509), (48, 22770), (49, 22788), (52, 22866), (55, 22959), (56, 23013), (58, 23070), (65, 23292), (68, 23319), (72, 23475), (74, 23514), (77, 23544), (79, 23601), (82, 23619), (83, 23634), (86, 23733), (88, 23769), (94, 23892), (95, 23916), (98, 23991), (100, 24024), (101, 24033), (102, 24039), (106, 24075), (109, 24114), (112, 24129), (114, 24165), (115, 24219), (116, 24225), (119, 24270), (122, 24327), (124, 24342), (126, 24369), (127, 24384), (132, 24513), (134, 24525), (139, 24609), (141, 24654), (147, 24774), (148, 24786), (149, 24795), (152, 24816), (153, 24861), (154, 24873), (157, 24897), (160, 24969), (163, 25023), (165, 25059), (168, 25107), (171, 25143), (174, 25185), (175, 25197), (176, 25209), (178, 25227), (181, 25254), (182, 25263), (184, 25284), (185, 25287), (188, 25320), (195, 25509), (197, 25554), (198, 25575), (199, 25584), (200, 25593), (204, 25782), (207, 25833), (208, 25869), (211, 25911), (212, 25935), (214, 25956), (218, 26037), (220, 26058), (222, 26082), (223, 26157), (225, 26208), (226, 26211), (229, 26268), (231, 26358), (234, 26394), (236, 26412), (238, 26442), (239, 26454), (244, 26550), (247, 26583), (248, 26586), (251, 26625), (252, 26634), (253, 26694), (254, 26736), (255, 26751), (259, 26847), (260, 26853), (264, 26874), (266, 26895), (267, 26907), (273, 27087), (274, 27093), (275, 27114),

Gene: GalaxyEater_29 Start: 21798, Stop: 27929, Start Num: 1

Candidate Starts for GalaxyEater_29:

(1, 21798), (3, 21852), (5, 22068), (13, 22293), (19, 22386), (22, 22425), (35, 22923), (38, 22998), (41, 23163), (42, 23169), (47, 23262), (51, 23337), (52, 23355), (59, 23640), (60, 23688), (62, 23754), (67, 23874), (71, 24018), (73, 24096), (75, 24114), (77, 24132), (81, 24204), (85, 24351), (88, 24396), (89, 24423), (104, 24690), (105, 24714), (108, 24756), (110, 24771), (113, 24810), (117, 24909), (128, 25092), (129, 25128), (130, 25155), (131, 25164), (133, 25188), (137, 25242), (138, 25266), (139, 25278), (140, 25281), (146, 25425), (149, 25485), (150, 25488), (151, 25497), (155, 25569), (156, 25584), (163, 25704), (164, 25737), (169, 25809), (173, 25857), (177, 25902), (179, 25935), (183, 25971), (189, 26037), (190, 26046), (191, 26064), (192, 26094), (199, 26280), (200, 26289), (202, 26379), (209, 26559), (210, 26565), (215, 26649), (218, 26712), (224, 26898), (227, 26925), (228, 26955), (232, 27084), (233, 27090), (235, 27102), (238, 27144), (239, 27156), (242, 27234), (243, 27237), (248, 27288), (249, 27303), (252, 27336), (253, 27396), (256, 27456), (257, 27483), (262, 27561), (263, 27564), (264, 27570), (266, 27591), (267, 27603), (276, 27831), (277, 27879),

Gene: GurgleFerb_26 Start: 20518, Stop: 25929, Start Num: 11

Candidate Starts for GurgleFerb_26:

(Start: 11 @20518 has 6 MA's), (16, 20614), (23, 20722), (25, 20830), (26, 20839), (27, 20863), (28, 20875), (29, 20911), (30, 20914), (37, 21220), (48, 21481), (49, 21499), (50, 21511), (52, 21577), (54, 21661), (58, 21781), (65, 22003), (68, 22030), (72, 22186), (74, 22225), (77, 22255), (79, 22312), (82, 22330), (83, 22345), (86, 22444), (88, 22480), (92, 22585), (93, 22594), (94, 22603), (95, 22627), (98, 22702), (99, 22720), (100, 22735), (101, 22744), (102, 22750), (106, 22786), (109, 22825), (112, 22840), (114, 22876), (115, 22930), (116, 22936), (119, 22981), (122, 23038), (124, 23053), (126, 23080), (127, 23095), (132, 23224), (134, 23236), (139, 23320), (141, 23365), (147, 23485), (148, 23497), (149, 23506), (152, 23527), (153, 23572), (154, 23584), (157, 23608), (160, 23680), (163, 23734), (165, 23770), (168, 23818), (171, 23854), (174, 23896), (175, 23908), (176, 23920), (178, 23938), (181, 23965), (182, 23974), (184, 23995), (185, 23998), (188, 24031), (195, 24220), (198, 24286), (199, 24295), (200, 24304), (204, 24493), (207, 24544), (208, 24580), (211, 24622), (212, 24646), (214, 24667), (218, 24748), (220, 24769), (222, 24793), (223, 24868), (225, 24919), (226, 24922), (229, 24979), (231, 25069), (234, 25105), (236, 25123), (238, 25153), (239, 25165), (244,

25261), (247, 25294), (248, 25297), (252, 25345), (253, 25405), (254, 25447), (255, 25462), (259, 25558), (260, 25564), (264, 25585), (266, 25606), (267, 25618), (274, 25804), (275, 25825),

Gene: Jasmine_29 Start: 22390, Stop: 27801, Start Num: 11

Candidate Starts for Jasmine_29:

(Start: 11 @22390 has 6 MA's), (16, 22486), (23, 22594), (25, 22702), (26, 22711), (27, 22735), (29, 22783), (30, 22786), (31, 22798), (37, 23092), (48, 23353), (52, 23449), (54, 23533), (55, 23542), (56, 23596), (58, 23653), (65, 23875), (68, 23902), (72, 24058), (74, 24097), (77, 24127), (78, 24181), (79, 24184), (82, 24202), (88, 24352), (92, 24457), (94, 24475), (95, 24499), (98, 24574), (99, 24592), (100, 24607), (101, 24616), (102, 24622), (106, 24658), (109, 24697), (112, 24712), (114, 24748), (116, 24808), (119, 24853), (121, 24892), (122, 24910), (124, 24925), (126, 24952), (127, 24967), (132, 25096), (134, 25108), (139, 25192), (141, 25237), (147, 25357), (148, 25369), (152, 25399), (153, 25444), (154, 25456), (157, 25480), (160, 25552), (163, 25606), (165, 25642), (168, 25690), (171, 25726), (174, 25768), (175, 25780), (176, 25792), (178, 25810), (181, 25837), (182, 25846), (184, 25867), (185, 25870), (188, 25903), (198, 26158), (199, 26167), (200, 26176), (203, 26269), (204, 26365), (207, 26416), (211, 26494), (212, 26518), (214, 26539), (218, 26620), (220, 26641), (222, 26665), (223, 26740), (225, 26791), (226, 26794), (229, 26851), (231, 26941), (234, 26977), (236, 26995), (238, 27025), (239, 27037), (244, 27133), (247, 27166), (248, 27169), (252, 27217), (253, 27277), (254, 27319), (255, 27334), (259, 27430), (260, 27436), (264, 27457), (266, 27478), (267, 27490), (274, 27676), (275, 27697),

Gene: LadyJasley_30 Start: 20835, Stop: 26843, Start Num: 2

Candidate Starts for LadyJasley_30:

(Start: 2 @20835 has 1 MA's), (4, 20988), (9, 21234), (14, 21339), (15, 21345), (17, 21408), (20, 21435), (24, 21516), (32, 21837), (33, 21888), (34, 21912), (40, 22047), (43, 22122), (63, 22608), (66, 22704), (69, 22728), (70, 22758), (74, 22902), (77, 22932), (80, 22995), (84, 23061), (91, 23331), (96, 23484), (97, 23493), (107, 23631), (110, 23649), (118, 23787), (123, 23871), (136, 24153), (139, 24192), (143, 24315), (158, 24555), (159, 24558), (161, 24579), (167, 24708), (170, 24744), (172, 24762), (179, 24861), (180, 24867), (186, 24918), (187, 24927), (192, 25023), (194, 25116), (200, 25218), (201, 25275), (206, 25419), (207, 25431), (215, 25572), (216, 25596), (217, 25626), (218, 25635), (219, 25650), (222, 25695), (227, 25836), (232, 25998), (234, 26010), (238, 26058), (239, 26070), (241, 26112), (242, 26148), (245, 26187), (248, 26202), (250, 26226), (251, 26241), (256, 26373), (258, 26448), (264, 26487), (265, 26502), (266, 26508), (268, 26526), (269, 26574), (271, 26610),

Gene: Nellie_26 Start: 20519, Stop: 25930, Start Num: 11

Candidate Starts for Nellie_26:

(Start: 11 @20519 has 6 MA's), (16, 20615), (23, 20723), (25, 20831), (26, 20840), (27, 20864), (28, 20876), (29, 20912), (30, 20915), (37, 21221), (48, 21482), (49, 21500), (50, 21512), (52, 21578), (54, 21662), (58, 21782), (65, 22004), (68, 22031), (72, 22187), (74, 22226), (77, 22256), (79, 22313), (82, 22331), (83, 22346), (86, 22445), (88, 22481), (92, 22586), (93, 22595), (94, 22604), (95, 22628), (98, 22703), (99, 22721), (100, 22736), (101, 22745), (102, 22751), (106, 22787), (109, 22826), (112, 22841), (114, 22877), (115, 22931), (116, 22937), (119, 22982), (122, 23039), (124, 23054), (126, 23081), (127, 23096), (132, 23225), (134, 23237), (139, 23321), (141, 23366), (147, 23486), (148, 23498), (149, 23507), (152, 23528), (153, 23573), (154, 23585), (157, 23609), (160, 23681), (163, 23735), (165, 23771), (168, 23819), (171, 23855), (174, 23897), (175, 23909), (176, 23921), (178, 23939), (181, 23966), (182, 23975), (184, 23996), (185, 23999), (188, 24032), (195, 24221), (198, 24287), (199, 24296), (200, 24305), (204, 24494), (207, 24545), (208, 24581), (211, 24623), (212, 24647), (214, 24668), (218, 24749), (220, 24770), (222, 24794), (223, 24869), (225, 24920), (226, 24923), (229, 24980), (231, 25070), (234, 25106), (236, 25124), (238, 25154), (239, 25166), (244, 25262), (247, 25295), (248, 25298), (252, 25346), (253, 25406), (254, 25448), (255, 25463), (259, 25559), (260, 25565), (264, 25586), (266, 25607), (267, 25619), (274, 25805), (275, 25826),

Gene: PigHeaded_28 Start: 19852, Stop: 25941, Start Num: 1

Candidate Starts for PigHeaded_28:

(1, 19852), (5, 20119), (6, 20122), (7, 20242), (8, 20245), (10, 20278), (12, 20344), (13, 20353), (18, 20428), (21, 20482), (36, 20986), (39, 21055), (44, 21271), (45, 21292), (46, 21301), (53, 21424), (57, 21625), (61, 21700), (64, 21778), (76, 22108), (77, 22117), (84, 22246), (87, 22342), (88, 22408), (89, 22435), (90, 22441), (96, 22627), (102, 22696), (103, 22699), (110, 22789), (111, 22795), (113, 22828), (120, 22963), (124, 23029), (125, 23044), (131, 23176), (134, 23209), (135, 23212), (137, 23266), (139, 23302), (142, 23380), (144, 23428), (145, 23440), (146, 23449), (149, 23509), (151, 23521), (155, 23593), (156, 23608), (162, 23689), (166, 23755), (169, 23815), (173, 23863), (186, 23998), (187, 24007), (191, 24073), (192, 24103), (193, 24127), (196, 24247), (200, 24298), (204, 24463), (205, 24487), (207, 24514), (209, 24565), (210, 24571), (213, 24634), (216, 24679), (221, 24766), (224, 24910), (230, 25039), (231, 25072), (232, 25096), (235, 25114), (237, 25147), (238, 25156), (239, 25168), (240, 25180), (244, 25264), (246, 25294), (248, 25300), (250, 25324), (251, 25339), (261, 25567), (264, 25585), (266, 25606), (269, 25675), (270, 25687), (272, 25753),