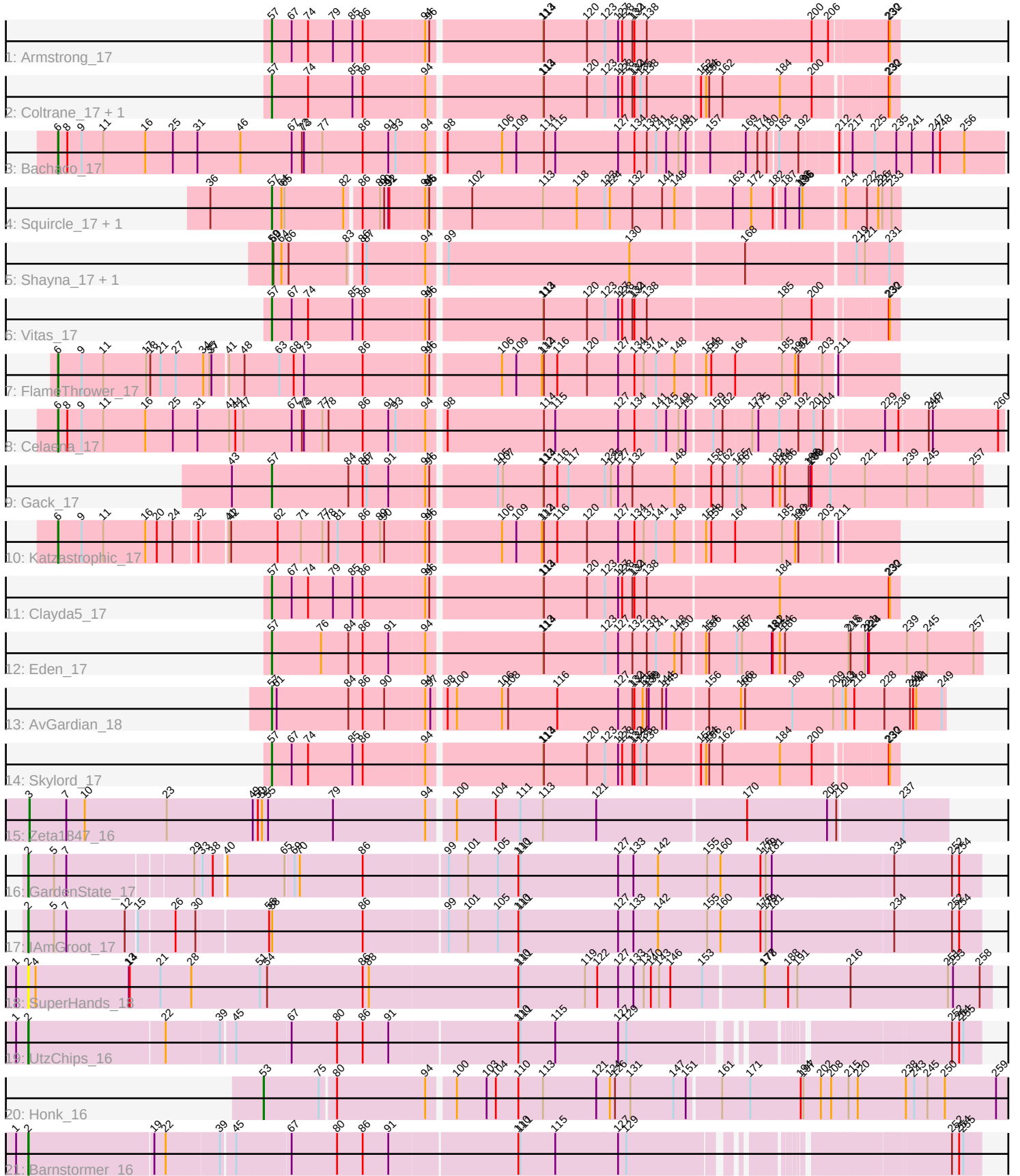


Pham 280818



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 280818 Report

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

Pham number 280818 has 24 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Armstrong_17
- Track 2 : Coltrane_17, Brahms_17
- Track 3 : Bachaco_17
- Track 4 : Squircle_17, Olliecat_17
- Track 5 : Shayna_17, SunnyD_17
- Track 6 : Vitas_17
- Track 7 : FlameThrower_17
- Track 8 : Celaena_17
- Track 9 : Gack_17
- Track 10 : Katzastraphic_17
- Track 11 : Clayda5_17
- Track 12 : Eden_17
- Track 13 : AvGardian_18
- Track 14 : Skylord_17
- Track 15 : Zeta1847_16
- Track 16 : GardenState_17
- Track 17 : IAmGroot_17
- Track 18 : SuperHands_18
- Track 19 : UtzChips_16
- Track 20 : Honk_16
- Track 21 : Barnstormer_16

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

The start number called the most often in the published annotations is 57, it was called in 11 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Armstrong_17, AvGardian_18, Brahms_17, Clayda5_17, Coltrane_17, Eden_17, Gack_17, Olliecat_17, Skylord_17, Squircle_17, Vitas_17,

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

-

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

- Bachaco_17, Barnstormer_16, Celaena_17, FlameThrower_17, GardenState_17, Honk_16, IAmGroot_17, Katzastrophic_17, Shayna_17, SunnyD_17, SuperHands_18, UtzChips_16, Zeta1847_16,

Summary by start number:

Start 2:

- Found in 5 of 24 (20.8%) of genes in pham
- Manual Annotations of this start: 4 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnstormer_16 (EH), GardenState_17 (EH), IAmGroot_17 (EH), SuperHands_18 (EH), UtzChips_16 (EH),

Start 3:

- Found in 1 of 24 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zeta1847_16 (EH),

Start 6:

- Found in 4 of 24 (16.7%) of genes in pham
- Manual Annotations of this start: 4 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bachaco_17 (EB), Celaena_17 (EB), FlameThrower_17 (EB), Katzastrophic_17 (EB),

Start 53:

- Found in 1 of 24 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Honk_16 (EH),

Start 57:

- Found in 11 of 24 (45.8%) of genes in pham
- Manual Annotations of this start: 11 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Armstrong_17 (EB), AvGardian_18 (EB), Brahms_17 (EB), Clayda5_17 (EB), Coltrane_17 (EB), Eden_17 (EB), Gack_17 (EB), Olliecat_17 (EB), Skylord_17 (EB), Squircle_17 (EB), Vitas_17 (EB),

Start 59:

- Found in 2 of 24 (8.3%) of genes in pham
- Manual Annotations of this start: 2 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shayna_17 (EB), SunnyD_17 (EB),

Summary by clusters:

There are 2 clusters represented in this pham: EH, EB,

Info for manual annotations of cluster EB:

- Start number 6 was manually annotated 4 times for cluster EB.

- Start number 57 was manually annotated 11 times for cluster EB.
- Start number 59 was manually annotated 2 times for cluster EB.

Info for manual annotations of cluster EH:

- Start number 2 was manually annotated 4 times for cluster EH.
- Start number 3 was manually annotated 1 time for cluster EH.
- Start number 53 was manually annotated 1 time for cluster EH.

Gene Information:

Gene: Armstrong_17 Start: 12466, Stop: 14193, Start Num: 57

Candidate Starts for Armstrong_17:

(Start: 57 @12466 has 11 MA's), (67, 12514), (74, 12559), (79, 12625), (85, 12682), (86, 12712), (94, 12886), (96, 12898), (113, 13204), (114, 13207), (120, 13333), (123, 13384), (127, 13423), (128, 13435), (132, 13465), (134, 13471), (138, 13507), (200, 13963), (206, 14011), (230, 14167), (232, 14170),

Gene: AvGardian_18 Start: 13647, Stop: 15533, Start Num: 57

Candidate Starts for AvGardian_18:

(Start: 57 @13647 has 11 MA's), (61, 13656), (84, 13851), (86, 13893), (90, 13956), (94, 14067), (97, 14082), (98, 14109), (100, 14136), (106, 14265), (108, 14283), (116, 14427), (127, 14604), (132, 14646), (134, 14652), (136, 14676), (138, 14688), (139, 14694), (144, 14733), (145, 14745), (156, 14859), (166, 14949), (168, 14961), (189, 15096), (209, 15207), (213, 15234), (214, 15243), (218, 15267), (228, 15354), (240, 15429), (242, 15438), (244, 15447), (249, 15522),

Gene: Bachaco_17 Start: 13521, Stop: 16133, Start Num: 6

Candidate Starts for Bachaco_17:

(Start: 6 @13521 has 4 MA's), (8, 13548), (9, 13587), (11, 13650), (16, 13773), (25, 13854), (31, 13926), (46, 14052), (67, 14190), (72, 14217), (73, 14223), (77, 14271), (86, 14388), (91, 14463), (93, 14484), (94, 14562), (98, 14604), (106, 14760), (109, 14802), (114, 14883), (115, 14916), (127, 15099), (134, 15147), (138, 15183), (141, 15210), (145, 15240), (149, 15276), (151, 15297), (157, 15357), (169, 15453), (174, 15483), (180, 15507), (183, 15531), (192, 15585), (212, 15678), (217, 15708), (225, 15771), (235, 15834), (241, 15879), (247, 15936), (248, 15957), (256, 16023),

Gene: Barnstormer_16 Start: 13150, Stop: 15660, Start Num: 2

Candidate Starts for Barnstormer_16:

(1, 13114), (Start: 2 @13150 has 4 MA's), (19, 13510), (22, 13540), (39, 13684), (45, 13717), (67, 13867), (80, 13990), (86, 14062), (91, 14137), (110, 14500), (111, 14506), (115, 14608), (127, 14791), (129, 14815), (252, 15577), (254, 15598), (255, 15610),

Gene: Brahms_17 Start: 12466, Stop: 14169, Start Num: 57

Candidate Starts for Brahms_17:

(Start: 57 @12466 has 11 MA's), (74, 12559), (85, 12682), (86, 12712), (94, 12886), (113, 13204), (114, 13207), (120, 13333), (123, 13384), (127, 13423), (128, 13435), (132, 13465), (134, 13471), (135, 13489), (138, 13507), (152, 13654), (154, 13669), (156, 13678), (162, 13717), (184, 13873), (200, 13963), (230, 14143), (232, 14146),

Gene: Celaena_17 Start: 13457, Stop: 16075, Start Num: 6

Candidate Starts for Celaena_17:

(Start: 6 @13457 has 4 MA's), (8, 13484), (9, 13523), (11, 13586), (16, 13709), (25, 13790), (31, 13862), (41, 13955), (44, 13973), (47, 13997), (67, 14126), (72, 14153), (73, 14159), (77, 14207), (78,

14225), (86, 14324), (91, 14399), (93, 14420), (94, 14498), (98, 14540), (114, 14819), (115, 14852), (127, 15035), (134, 15083), (141, 15146), (145, 15176), (149, 15212), (151, 15233), (159, 15302), (162, 15329), (173, 15407), (175, 15422), (183, 15473), (192, 15527), (201, 15572), (204, 15593), (229, 15746), (236, 15779), (246, 15857), (247, 15869), (260, 16058),

Gene: Clayda5_17 Start: 12466, Stop: 14199, Start Num: 57

Candidate Starts for Clayda5_17:

(Start: 57 @12466 has 11 MA's), (67, 12514), (74, 12559), (79, 12625), (85, 12682), (86, 12712), (94, 12886), (96, 12898), (113, 13204), (114, 13207), (120, 13333), (123, 13384), (127, 13423), (128, 13435), (132, 13465), (134, 13471), (138, 13507), (184, 13873), (230, 14173), (232, 14176),

Gene: Coltrane_17 Start: 12466, Stop: 14169, Start Num: 57

Candidate Starts for Coltrane_17:

(Start: 57 @12466 has 11 MA's), (74, 12559), (85, 12682), (86, 12712), (94, 12886), (113, 13204), (114, 13207), (120, 13333), (123, 13384), (127, 13423), (128, 13435), (132, 13465), (134, 13471), (135, 13489), (138, 13507), (152, 13654), (154, 13669), (156, 13678), (162, 13717), (184, 13873), (200, 13963), (230, 14143), (232, 14146),

Gene: Eden_17 Start: 12590, Stop: 14578, Start Num: 57

Candidate Starts for Eden_17:

(Start: 57 @12590 has 11 MA's), (76, 12713), (84, 12791), (86, 12833), (91, 12908), (94, 13007), (113, 13325), (114, 13328), (123, 13505), (127, 13544), (132, 13586), (138, 13628), (141, 13655), (148, 13709), (150, 13730), (154, 13790), (156, 13799), (165, 13877), (167, 13892), (181, 13976), (182, 13979), (184, 14000), (186, 14015), (215, 14192), (216, 14198), (221, 14240), (223, 14249), (224, 14252), (239, 14360), (245, 14417), (257, 14552),

Gene: FlameThrower_17 Start: 13345, Stop: 15654, Start Num: 6

Candidate Starts for FlameThrower_17:

(Start: 6 @13345 has 4 MA's), (9, 13411), (11, 13474), (17, 13600), (18, 13612), (21, 13642), (27, 13687), (34, 13762), (35, 13780), (37, 13786), (41, 13825), (48, 13870), (63, 13957), (68, 13996), (73, 14026), (86, 14194), (94, 14368), (96, 14380), (106, 14566), (109, 14608), (112, 14683), (114, 14689), (116, 14728), (120, 14815), (127, 14905), (134, 14953), (137, 14980), (141, 15016), (148, 15070), (154, 15151), (158, 15166), (164, 15235), (185, 15358), (190, 15394), (192, 15403), (203, 15463), (211, 15490),

Gene: Gack_17 Start: 12658, Stop: 14643, Start Num: 57

Candidate Starts for Gack_17:

(43, 12544), (Start: 57 @12658 has 11 MA's), (84, 12859), (86, 12901), (87, 12913), (91, 12976), (94, 13075), (96, 13087), (105, 13261), (107, 13276), (113, 13393), (114, 13396), (116, 13435), (117, 13468), (123, 13573), (125, 13591), (127, 13612), (132, 13654), (148, 13777), (158, 13873), (162, 13906), (165, 13945), (167, 13960), (182, 14047), (184, 14068), (186, 14083), (198, 14146), (199, 14152), (200, 14155), (207, 14209), (221, 14305), (239, 14425), (245, 14482), (257, 14617),

Gene: GardenState_17 Start: 13423, Stop: 16074, Start Num: 2

Candidate Starts for GardenState_17:

(Start: 2 @13423 has 4 MA's), (5, 13498), (7, 13534), (29, 13879), (33, 13897), (38, 13924), (40, 13954), (65, 14107), (69, 14128), (70, 14143), (86, 14320), (99, 14554), (101, 14611), (105, 14698), (110, 14758), (111, 14764), (127, 15049), (133, 15094), (142, 15166), (155, 15310), (160, 15349), (176, 15460), (179, 15475), (181, 15493), (234, 15832), (252, 15991), (254, 16012),

Gene: Honk_16 Start: 12148, Stop: 14262, Start Num: 53

Candidate Starts for Honk_16:

(Start: 53 @12148 has 1 MA's), (75, 12286), (80, 12322), (94, 12580), (100, 12649), (103, 12733), (104, 12760), (110, 12826), (113, 12898), (121, 13054), (124, 13093), (126, 13108), (131, 13153), (147, 13279), (151, 13315), (161, 13405), (171, 13483), (194, 13627), (197, 13633), (202, 13684), (208, 13711), (215, 13762), (220, 13789), (238, 13927), (243, 13948), (245, 13987), (250, 14038), (259, 14188),

Gene: IAmGroot_17 Start: 14067, Stop: 16736, Start Num: 2

Candidate Starts for IAmGroot_17:

(Start: 2 @14067 has 4 MA's), (5, 14142), (7, 14178), (12, 14349), (15, 14379), (26, 14475), (30, 14529), (56, 14718), (58, 14727), (86, 14982), (99, 15216), (101, 15273), (105, 15360), (110, 15420), (111, 15426), (127, 15711), (133, 15756), (142, 15828), (155, 15972), (160, 16011), (176, 16122), (179, 16137), (181, 16155), (234, 16494), (252, 16653), (254, 16674),

Gene: Katzastrophic_17 Start: 13520, Stop: 15796, Start Num: 6

Candidate Starts for Katzastrophic_17:

(Start: 6 @13520 has 4 MA's), (9, 13586), (11, 13649), (16, 13772), (20, 13805), (24, 13847), (32, 13910), (41, 13976), (42, 13982), (62, 14102), (71, 14159), (77, 14219), (78, 14237), (81, 14264), (86, 14336), (89, 14387), (90, 14399), (94, 14510), (96, 14522), (106, 14708), (109, 14750), (112, 14825), (114, 14831), (116, 14870), (120, 14957), (127, 15047), (134, 15095), (137, 15122), (141, 15158), (148, 15212), (154, 15293), (158, 15308), (164, 15377), (185, 15500), (190, 15536), (192, 15545), (203, 15605), (211, 15632),

Gene: Olliecat_17 Start: 13859, Stop: 15553, Start Num: 57

Candidate Starts for Olliecat_17:

(36, 13682), (Start: 57 @13859 has 11 MA's), (64, 13880), (65, 13889), (82, 14048), (86, 14087), (89, 14138), (90, 14150), (91, 14162), (92, 14165), (94, 14261), (95, 14270), (96, 14273), (102, 14372), (113, 14579), (118, 14678), (123, 14759), (124, 14774), (132, 14840), (144, 14927), (148, 14963), (163, 15110), (172, 15158), (182, 15215), (187, 15242), (193, 15281), (195, 15287), (196, 15290), (214, 15398), (222, 15458), (226, 15488), (227, 15500), (233, 15527),

Gene: Shayna_17 Start: 13717, Stop: 15447, Start Num: 59

Candidate Starts for Shayna_17:

(Start: 59 @13717 has 2 MA's), (60, 13720), (64, 13741), (66, 13759), (83, 13918), (86, 13948), (87, 13960), (94, 14122), (99, 14167), (130, 14692), (168, 15013), (219, 15313), (221, 15337), (231, 15409),

Gene: Skylord_17 Start: 12466, Stop: 14169, Start Num: 57

Candidate Starts for Skylord_17:

(Start: 57 @12466 has 11 MA's), (67, 12514), (74, 12559), (85, 12682), (86, 12712), (94, 12886), (113, 13204), (114, 13207), (120, 13333), (123, 13384), (127, 13423), (128, 13435), (132, 13465), (134, 13471), (135, 13489), (138, 13507), (152, 13654), (154, 13669), (156, 13678), (162, 13717), (184, 13873), (200, 13963), (230, 14143), (232, 14146),

Gene: Squirrel_17 Start: 13858, Stop: 15552, Start Num: 57

Candidate Starts for Squirrel_17:

(36, 13681), (Start: 57 @13858 has 11 MA's), (64, 13879), (65, 13888), (82, 14047), (86, 14086), (89, 14137), (90, 14149), (91, 14161), (92, 14164), (94, 14260), (95, 14269), (96, 14272), (102, 14371), (113, 14578), (118, 14677), (123, 14758), (124, 14773), (132, 14839), (144, 14926), (148, 14962), (163, 15109), (172, 15157), (182, 15214), (187, 15241), (193, 15280), (195, 15286), (196, 15289), (214, 15397), (222, 15457), (226, 15487), (227, 15499), (233, 15526),

Gene: SunnyD_17 Start: 13717, Stop: 15447, Start Num: 59

Candidate Starts for SunnyD_17:

(Start: 59 @13717 has 2 MA's), (60, 13720), (64, 13741), (66, 13759), (83, 13918), (86, 13948), (87, 13960), (94, 14122), (99, 14167), (130, 14692), (168, 15013), (219, 15313), (221, 15337), (231, 15409),

Gene: SuperHands_18 Start: 14864, Stop: 17620, Start Num: 2

Candidate Starts for SuperHands_18:

(1, 14831), (Start: 2 @14864 has 4 MA's), (4, 14885), (13, 15158), (14, 15161), (21, 15248), (28, 15332), (51, 15530), (54, 15551), (86, 15815), (88, 15833), (110, 16265), (111, 16271), (119, 16460), (122, 16496), (127, 16556), (133, 16601), (137, 16631), (140, 16652), (143, 16676), (146, 16709), (153, 16802), (177, 16964), (178, 16967), (188, 17033), (191, 17057), (216, 17213), (251, 17492), (253, 17507), (258, 17585),

Gene: UtzChips_16 Start: 13138, Stop: 15648, Start Num: 2

Candidate Starts for UtzChips_16:

(1, 13102), (Start: 2 @13138 has 4 MA's), (22, 13528), (39, 13672), (45, 13705), (67, 13855), (80, 13978), (86, 14050), (91, 14125), (110, 14488), (111, 14494), (115, 14596), (127, 14779), (129, 14803), (252, 15565), (254, 15586), (255, 15598),

Gene: Vitas_17 Start: 12466, Stop: 14169, Start Num: 57

Candidate Starts for Vitas_17:

(Start: 57 @12466 has 11 MA's), (67, 12514), (74, 12559), (85, 12682), (86, 12712), (94, 12886), (96, 12898), (113, 13204), (114, 13207), (120, 13333), (123, 13384), (127, 13423), (128, 13435), (132, 13465), (134, 13471), (138, 13507), (185, 13879), (200, 13963), (230, 14143), (232, 14146),

Gene: Zeta1847_16 Start: 13524, Stop: 16088, Start Num: 3

Candidate Starts for Zeta1847_16:

(Start: 3 @13524 has 1 MA's), (7, 13632), (10, 13683), (23, 13923), (49, 14172), (50, 14187), (52, 14199), (55, 14217), (79, 14394), (94, 14664), (100, 14733), (104, 14844), (111, 14916), (113, 14982), (121, 15132), (170, 15552), (205, 15765), (210, 15792), (237, 15969),