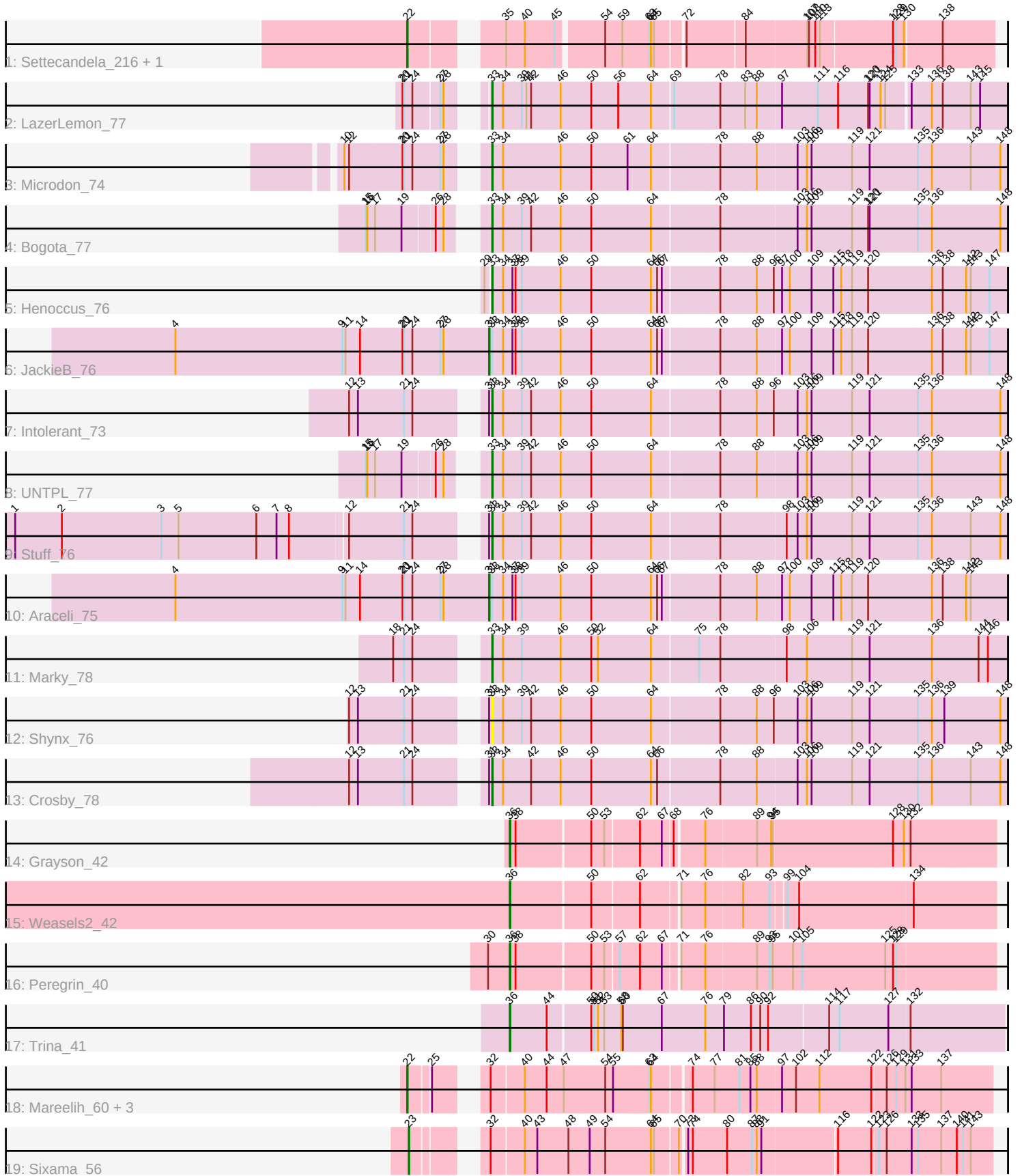


Pham 280840



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 280840 Report

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

Pham number 280840 has 23 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Settecandela_216, Phrappuccino_191
- Track 2 : LazerLemon_77
- Track 3 : Microdon_74
- Track 4 : Bogota_77
- Track 5 : Henoccus_76
- Track 6 : JackieB_76
- Track 7 : Intolerant_73
- Track 8 : UNTPL_77
- Track 9 : Stuff_76
- Track 10 : Araceli_75
- Track 11 : Marky_78
- Track 12 : Shynx_76
- Track 13 : Crosby_78
- Track 14 : Grayson_42
- Track 15 : Weasels2_42
- Track 16 : Peregrin_40
- Track 17 : Trina_41
- Track 18 : Mareelih_60, BlueNGold_60, Boopy_62, Forza_61
- Track 19 : Sixama_56

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

The start number called the most often in the published annotations is 33, it was called in 9 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bogota_77, Crosby_78, Henoccus_76, Intolerant_73, LazerLemon_77, Marky_78, Microdon_74, Shynx_76, Stuff_76, UNTPL_77,

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

- Araceli_75, JackieB_76,

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

- BlueNGold_60, Boopy_62, Forza_61, Grayson_42, Mareelih_60, Peregrin_40, Phrappuccino_191, Settecandela_216, Sixama_56, Trina_41, Weasels2_42,

Summary by start number:

Start 22:

- Found in 6 of 23 (26.1%) of genes in pham
- Manual Annotations of this start: 6 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_60 (DS), Boopy_62 (DS), Forza_61 (DS), Mareelih_60 (DS), Phrappuccino_191 (AA), Settecandela_216 (AA),

Start 23:

- Found in 1 of 23 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sixama_56 (DS),

Start 31:

- Found in 6 of 23 (26.1%) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Araceli_75 (BH), JackieB_76 (BH),

Start 33:

- Found in 12 of 23 (52.2%) of genes in pham
- Manual Annotations of this start: 9 of 22
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Bogota_77 (BH), Crosby_78 (BH), Henoccus_76 (BH), Intolerant_73 (BH), LazerLemon_77 (BH), Marky_78 (BH), Microdon_74 (BH), Shynx_76 (BH), Stuff_76 (BH), UNTPL_77 (BH),

Start 36:

- Found in 4 of 23 (17.4%) of genes in pham
- Manual Annotations of this start: 4 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson_42 (CB), Peregrin_40 (CB), Trina_41 (CE), Weasels2_42 (CB),

Summary by clusters:

There are 5 clusters represented in this pham: AA, CB, BH, DS, CE,

Info for manual annotations of cluster AA:

- Start number 22 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster BH:

- Start number 31 was manually annotated 2 times for cluster BH.
- Start number 33 was manually annotated 9 times for cluster BH.

Info for manual annotations of cluster CB:

- Start number 36 was manually annotated 3 times for cluster CB.

Info for manual annotations of cluster CE:

- Start number 36 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster DS:

- Start number 22 was manually annotated 4 times for cluster DS.
- Start number 23 was manually annotated 1 time for cluster DS.

Gene Information:

Gene: Araceli_75 Start: 51714, Stop: 52691, Start Num: 31

Candidate Starts for Araceli_75:

(4, 51114), (9, 51435), (11, 51441), (14, 51468), (20, 51549), (21, 51552), (24, 51567), (27, 51621), (28, 51627), (Start: 31 @51714 has 2 MA's), (Start: 33 @51720 has 9 MA's), (34, 51741), (37, 51759), (38, 51765), (39, 51777), (46, 51852), (50, 51909), (64, 52023), (66, 52035), (67, 52044), (78, 52146), (88, 52215), (97, 52260), (100, 52275), (109, 52317), (115, 52359), (118, 52374), (119, 52395), (120, 52425), (136, 52545), (138, 52566), (142, 52611), (143, 52620),

Gene: BlueNGold_60 Start: 23425, Stop: 22415, Start Num: 22

Candidate Starts for BlueNGold_60:

(Start: 22 @23425 has 6 MA's), (25, 23389), (32, 23326), (40, 23269), (44, 23227), (47, 23194), (54, 23116), (55, 23101), (63, 23038), (64, 23035), (74, 22969), (77, 22927), (81, 22879), (85, 22861), (88, 22849), (97, 22804), (102, 22780), (112, 22735), (122, 22639), (126, 22615), (129, 22597), (131, 22579), (133, 22567), (137, 22510),

Gene: Bogota_77 Start: 51446, Stop: 52414, Start Num: 33

Candidate Starts for Bogota_77:

(15, 51263), (16, 51266), (17, 51281), (19, 51332), (26, 51389), (28, 51404), (Start: 33 @51446 has 9 MA's), (34, 51467), (39, 51503), (42, 51521), (46, 51578), (50, 51635), (64, 51749), (78, 51872), (103, 52016), (106, 52034), (109, 52043), (119, 52121), (120, 52151), (121, 52154), (135, 52244), (136, 52271), (148, 52403),

Gene: Boopy_62 Start: 23437, Stop: 22427, Start Num: 22

Candidate Starts for Boopy_62:

(Start: 22 @23437 has 6 MA's), (25, 23401), (32, 23338), (40, 23281), (44, 23239), (47, 23206), (54, 23128), (55, 23113), (63, 23050), (64, 23047), (74, 22981), (77, 22939), (81, 22891), (85, 22873), (88, 22861), (97, 22816), (102, 22792), (112, 22747), (122, 22651), (126, 22627), (129, 22609), (131, 22591), (133, 22579), (137, 22522),

Gene: Crosby_78 Start: 51305, Stop: 52273, Start Num: 33

Candidate Starts for Crosby_78:

(12, 51086), (13, 51101), (21, 51188), (24, 51203), (Start: 31 @51299 has 2 MA's), (Start: 33 @51305 has 9 MA's), (34, 51326), (42, 51380), (46, 51437), (50, 51494), (64, 51608), (66, 51620), (78, 51731), (88, 51800), (103, 51875), (106, 51893), (109, 51902), (119, 51980), (121, 52013), (135, 52103), (136, 52130), (143, 52205), (148, 52262),

Gene: Forza_61 Start: 23353, Stop: 22343, Start Num: 22

Candidate Starts for Forza_61:

(Start: 22 @23353 has 6 MA's), (25, 23317), (32, 23254), (40, 23197), (44, 23155), (47, 23122), (54, 23044), (55, 23029), (63, 22966), (64, 22963), (74, 22897), (77, 22855), (81, 22807), (85, 22789), (88, 22777), (97, 22732), (102, 22708), (112, 22663), (122, 22567), (126, 22543), (129, 22525), (131, 22507), (133, 22495), (137, 22438),

Gene: Grayson_42 Start: 14061, Stop: 13180, Start Num: 36

Candidate Starts for Grayson_42:

(Start: 36 @14061 has 4 MA's), (38, 14052), (50, 13920), (53, 13896), (62, 13833), (67, 13791), (68, 13773), (76, 13722), (89, 13626), (94, 13599), (95, 13596), (128, 13371), (130, 13350), (132, 13341),

Gene: Henococcus_76 Start: 51811, Stop: 52782, Start Num: 33

Candidate Starts for Henococcus_76:

(29, 51802), (Start: 33 @51811 has 9 MA's), (34, 51832), (37, 51850), (38, 51856), (39, 51868), (46, 51943), (50, 52000), (64, 52114), (66, 52126), (67, 52135), (78, 52237), (88, 52306), (96, 52339), (97, 52351), (100, 52366), (109, 52408), (115, 52450), (118, 52465), (119, 52486), (120, 52516), (136, 52636), (138, 52657), (142, 52702), (143, 52711), (147, 52747),

Gene: Intolerant_73 Start: 50923, Stop: 51891, Start Num: 33

Candidate Starts for Intolerant_73:

(12, 50704), (13, 50719), (21, 50806), (24, 50821), (Start: 31 @50917 has 2 MA's), (Start: 33 @50923 has 9 MA's), (34, 50944), (39, 50980), (42, 50998), (46, 51055), (50, 51112), (64, 51226), (78, 51349), (88, 51418), (96, 51451), (103, 51493), (106, 51511), (109, 51520), (119, 51598), (121, 51631), (135, 51721), (136, 51748), (148, 51880),

Gene: JackieB_76 Start: 51580, Stop: 52557, Start Num: 31

Candidate Starts for JackieB_76:

(4, 50980), (9, 51301), (11, 51307), (14, 51334), (20, 51415), (21, 51418), (24, 51433), (27, 51487), (28, 51493), (Start: 31 @51580 has 2 MA's), (Start: 33 @51586 has 9 MA's), (34, 51607), (37, 51625), (38, 51631), (39, 51643), (46, 51718), (50, 51775), (64, 51889), (66, 51901), (67, 51910), (78, 52012), (88, 52081), (97, 52126), (100, 52141), (109, 52183), (115, 52225), (118, 52240), (119, 52261), (120, 52291), (136, 52411), (138, 52432), (142, 52477), (143, 52486), (147, 52522),

Gene: LazerLemon_77 Start: 52080, Stop: 53042, Start Num: 33

Candidate Starts for LazerLemon_77:

(20, 51969), (21, 51972), (24, 51987), (27, 52035), (28, 52041), (Start: 33 @52080 has 9 MA's), (34, 52101), (39, 52137), (41, 52146), (42, 52155), (46, 52209), (50, 52266), (56, 52317), (64, 52380), (69, 52419), (78, 52506), (83, 52554), (88, 52575), (97, 52620), (111, 52689), (116, 52728), (120, 52785), (121, 52788), (124, 52809), (125, 52818), (133, 52860), (136, 52896), (138, 52917), (143, 52971), (145, 52989),

Gene: Mareelih_60 Start: 22855, Stop: 21845, Start Num: 22

Candidate Starts for Mareelih_60:

(Start: 22 @22855 has 6 MA's), (25, 22819), (32, 22756), (40, 22699), (44, 22657), (47, 22624), (54, 22546), (55, 22531), (63, 22468), (64, 22465), (74, 22399), (77, 22357), (81, 22309), (85, 22291), (88, 22279), (97, 22234), (102, 22210), (112, 22165), (122, 22069), (126, 22045), (129, 22027), (131, 22009), (133, 21997), (137, 21940),

Gene: Marky_78 Start: 51336, Stop: 52307, Start Num: 33

Candidate Starts for Marky_78:

(18, 51198), (21, 51219), (24, 51234), (Start: 33 @51336 has 9 MA's), (34, 51357), (39, 51393), (46, 51468), (50, 51525), (52, 51537), (64, 51639), (75, 51723), (78, 51762), (98, 51885), (106, 51924), (119, 52011), (121, 52044), (136, 52161), (144, 52251), (146, 52269),

Gene: Microdon_74 Start: 50395, Stop: 51366, Start Num: 33

Candidate Starts for Microdon_74:

(10, 50167), (12, 50176), (20, 50275), (21, 50278), (24, 50293), (27, 50344), (28, 50350), (Start: 33 @50395 has 9 MA's), (34, 50416), (46, 50527), (50, 50584), (61, 50653), (64, 50698), (78, 50821), (88,

50890), (103, 50965), (106, 50983), (109, 50992), (119, 51070), (121, 51103), (135, 51193), (136, 51220), (143, 51295), (148, 51352),

Gene: Peregrin_40 Start: 13375, Stop: 12494, Start Num: 36

Candidate Starts for Peregrin_40:

(30, 13417), (Start: 36 @13375 has 4 MA's), (38, 13366), (50, 13234), (53, 13210), (57, 13186), (62, 13147), (67, 13105), (71, 13081), (76, 13036), (89, 12940), (93, 12916), (95, 12910), (101, 12871), (105, 12853), (125, 12700), (128, 12685), (129, 12679),

Gene: Phrappuccino_191 Start: 121514, Stop: 122515, Start Num: 22

Candidate Starts for Phrappuccino_191:

(Start: 22 @121514 has 6 MA's), (35, 121649), (40, 121685), (45, 121742), (54, 121823), (59, 121853), (63, 121901), (64, 121904), (65, 121910), (72, 121958), (84, 122066), (107, 122174), (108, 122177), (110, 122189), (113, 122198), (128, 122327), (129, 122333), (130, 122348), (138, 122417),

Gene: Settecandela_216 Start: 130361, Stop: 131362, Start Num: 22

Candidate Starts for Settecandela_216:

(Start: 22 @130361 has 6 MA's), (35, 130496), (40, 130532), (45, 130589), (54, 130670), (59, 130700), (63, 130748), (64, 130751), (65, 130757), (72, 130805), (84, 130913), (107, 131021), (108, 131024), (110, 131036), (113, 131045), (128, 131174), (129, 131180), (130, 131195), (138, 131264),

Gene: Shynx_76 Start: 51248, Stop: 52216, Start Num: 33

Candidate Starts for Shynx_76:

(12, 51029), (13, 51044), (21, 51131), (24, 51146), (Start: 31 @51242 has 2 MA's), (Start: 33 @51248 has 9 MA's), (34, 51269), (39, 51305), (42, 51323), (46, 51380), (50, 51437), (64, 51551), (78, 51674), (88, 51743), (96, 51776), (103, 51818), (106, 51836), (109, 51845), (119, 51923), (121, 51956), (135, 52046), (136, 52073), (139, 52097), (148, 52205),

Gene: Sixama_56 Start: 21776, Stop: 20772, Start Num: 23

Candidate Starts for Sixama_56:

(Start: 23 @21776 has 1 MA's), (32, 21680), (40, 21623), (43, 21599), (48, 21539), (49, 21500), (54, 21470), (64, 21383), (65, 21377), (70, 21335), (73, 21326), (74, 21317), (80, 21251), (87, 21203), (88, 21194), (91, 21185), (116, 21053), (122, 20996), (123, 20987), (126, 20972), (133, 20924), (135, 20912), (137, 20867), (140, 20840), (141, 20828), (143, 20813),

Gene: Stuff_76 Start: 51284, Stop: 52252, Start Num: 33

Candidate Starts for Stuff_76:

(1, 50432), (2, 50522), (3, 50714), (5, 50747), (6, 50897), (7, 50936), (8, 50960), (12, 51065), (21, 51167), (24, 51182), (Start: 31 @51278 has 2 MA's), (Start: 33 @51284 has 9 MA's), (34, 51305), (39, 51341), (42, 51359), (46, 51416), (50, 51473), (64, 51587), (78, 51710), (98, 51833), (103, 51854), (106, 51872), (109, 51881), (119, 51959), (121, 51992), (135, 52082), (136, 52109), (143, 52184), (148, 52241),

Gene: Trina_41 Start: 15743, Stop: 14823, Start Num: 36

Candidate Starts for Trina_41:

(Start: 36 @15743 has 4 MA's), (44, 15677), (50, 15599), (51, 15593), (52, 15587), (53, 15575), (58, 15542), (60, 15539), (67, 15464), (76, 15380), (79, 15344), (86, 15293), (90, 15275), (92, 15260), (114, 15149), (117, 15131), (127, 15038), (132, 14999),

Gene: UNTPL_77 Start: 51758, Stop: 52726, Start Num: 33

Candidate Starts for UNTPL_77:

(15, 51575), (16, 51578), (17, 51593), (19, 51644), (26, 51701), (28, 51716), (Start: 33 @51758 has 9 MA's), (34, 51779), (39, 51815), (42, 51833), (46, 51890), (50, 51947), (64, 52061), (78, 52184), (88,

52253), (103, 52328), (106, 52346), (109, 52355), (119, 52433), (121, 52466), (135, 52556), (136, 52583), (148, 52715),

Gene: Weasels2_42 Start: 14381, Stop: 13518, Start Num: 36

Candidate Starts for Weasels2_42:

(Start: 36 @14381 has 4 MA's), (50, 14240), (62, 14153), (71, 14087), (76, 14042), (82, 13973), (93, 13922), (99, 13898), (104, 13877), (134, 13673),