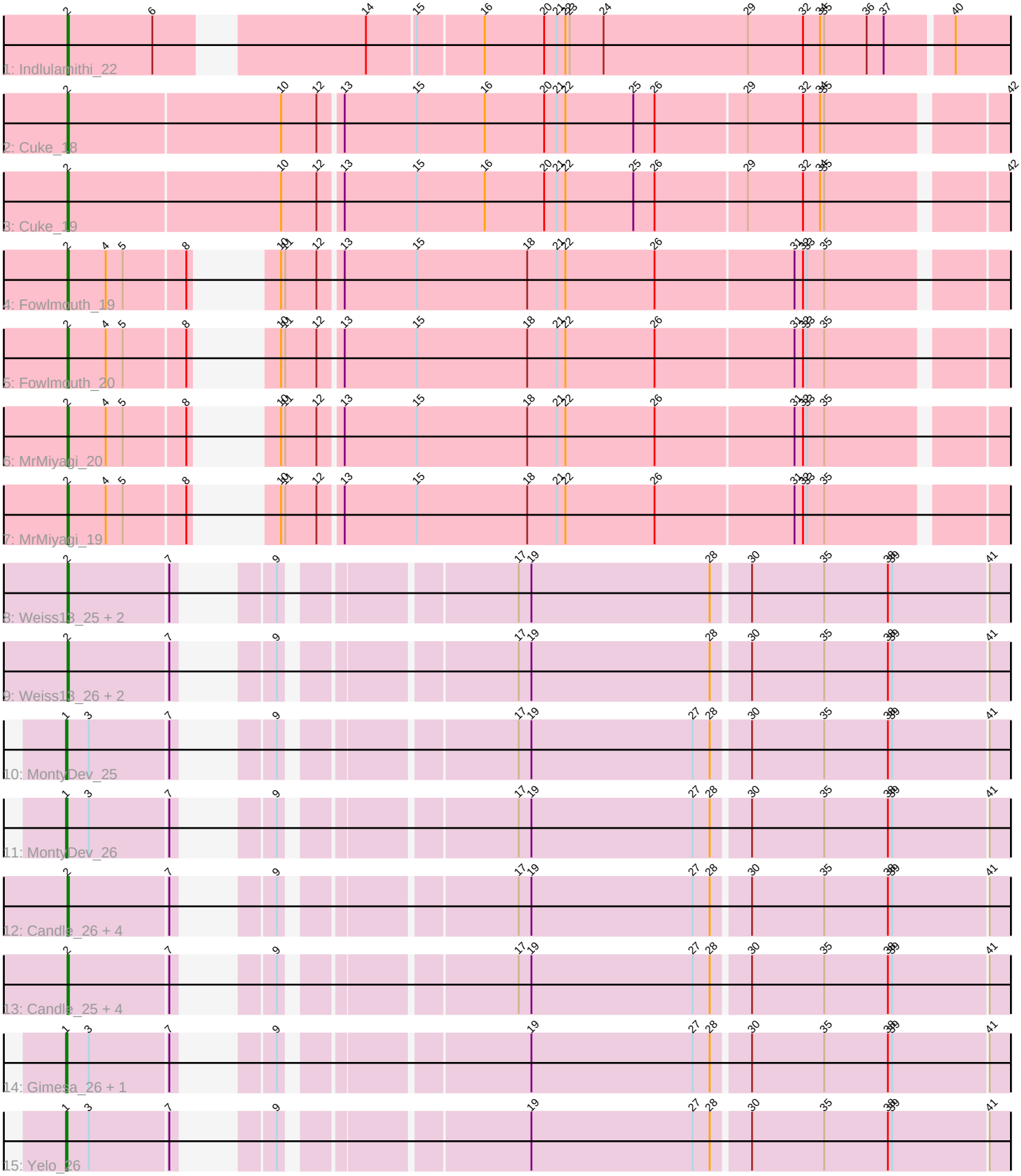
Zoomed Pham 346037



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 346037 Report

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

Pham number 346037 has 28 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Indlulamithi_22
• Track 2 : Cuke_18
• Track 3 : Cuke_19
• Track 4 : Fowlmouth_19
• Track 5 : Fowlmouth_20
• Track 6 : MrMiyagi_20
• Track 7 : MrMiyagi_19
• Track 8 : Weiss13_25, Rope_25, Papyrus_25
• Track 9 : Weiss13_26, Papyrus_26, Rope_26
• Track 10 : MontyDev_25
• Track 11 : MontyDev_26
• Track 12 : Candle_26, Nilo_27, Zenon_27, Riparian_26, Send513_26
• Track 13 : Candle_25, Riparian_25, Nilo_26, Zenon_26, Send513_25
• Track 14 : Gimesa_26, Yelo_25
• Track 15 : Yelo_26

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 23 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Candle_25, Candle_26, Cuke_18, Cuke_19, Fowlmouth_19, Fowlmouth_20, Indlulamithi_22, MrMiyagi_19, MrMiyagi_20, Nilo_26, Nilo_27, Papyrus_25, Papyrus_26, Riparian_25, Riparian_26, Rope_25, Rope_26, Send513_25, Send513_26, Weiss13_25, Weiss13_26, Zenon_26, Zenon_27,

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

Genes that do not have the "Most Annotated" start:
• Gimesa_26, MontyDev_25, MontyDev_26, Yelo_25, Yelo_26,

Summary by start number:

Start 1:
• Found in 5 of 28 (17.9%) of genes in pham
• Manual Annotations of this start: 4 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gimesa_26 (R), MontyDev_25 (R), MontyDev_26 (R), Yelo_25 (R), Yelo_26 (R),

Start 2:
• Found in 23 of 28 (82.1%) of genes in pham
• Manual Annotations of this start: 23 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Candle_25 (R), Candle_26 (R), Cuke_18 (AC), Cuke_19 (AC), Fowlmouth_19 (AC), Fowlmouth_20 (AC), Indlulamithi_22 (AC), MrMiyagi_19 (AC), MrMiyagi_20 (AC), Nilo_26 (R), Nilo_27 (R), Papyrus_25 (R), Papyrus_26 (R), Riparian_25 (R), Riparian_26 (R), Rope_25 (R), Rope_26 (R), Send513_25 (R), Send513_26 (R), Weiss13_25 (R), Weiss13_26 (R), Zenon_26 (R), Zenon_27 (R),

Summary by clusters:

There are 2 clusters represented in this pham: AC, R,

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

Info for manual annotations of cluster R:
•Start number 1 was manually annotated 4 times for cluster R.
•Start number 2 was manually annotated 16 times for cluster R.

Gene Information:

Gene: Candle_26 Start: 15923, Stop: 17030, Start Num: 2
Candidate Starts for Candle_26:
(Start: 2 @15923 has 23 MA's), (7, 15992), (9, 16022), (17, 16166), (19, 16175), (27, 16289), (28, 16301), (30, 16325), (35, 16376), (38, 16421), (39, 16424), (41, 16490), (46, 16547), (49, 16580), (51, 16610), (52, 16616), (53, 16649), (55, 16661), (57, 16703), (58, 16715), (61, 17027),

Gene: Candle_25 Start: 15923, Stop: 16699, Start Num: 2
Candidate Starts for Candle_25:
(Start: 2 @15923 has 23 MA's), (7, 15992), (9, 16022), (17, 16166), (19, 16175), (27, 16289), (28, 16301), (30, 16325), (35, 16376), (38, 16421), (39, 16424), (41, 16490), (46, 16547), (49, 16580), (51, 16610), (52, 16616), (53, 16649), (55, 16661),

Gene: Cuke_18 Start: 11044, Stop: 11877, Start Num: 2
Candidate Starts for Cuke_18:
(Start: 2 @11044 has 23 MA's), (10, 11191), (12, 11215), (13, 11230), (15, 11281), (16, 11329), (20, 11371), (21, 11380), (22, 11386), (25, 11434), (26, 11449), (29, 11512), (32, 11551), (34, 11563), (35, 11566), (42, 11683), (44, 11701), (49, 11758), (51, 11788), (52, 11794), (55, 11839),

Gene: Cuke_19 Start: 11044, Stop: 12181, Start Num: 2

Candidate Starts for Cuke_19:
(Start: 2 @11044 has 23 MA's), (10, 11191), (12, 11215), (13, 11230), (15, 11281), (16, 11329), (20, 11371), (21, 11380), (22, 11386), (25, 11434), (26, 11449), (29, 11512), (32, 11551), (34, 11563), (35, 11566), (42, 11683), (44, 11701), (49, 11758), (51, 11788), (52, 11794), (55, 11839), (58, 11893), (59, 11932), (60, 11935),

Gene: Fowlmouth_19 Start: 11198, Stop: 11980, Start Num: 2
Candidate Starts for Fowlmouth_19:
(Start: 2 @11198 has 23 MA's), (4, 11225), (5, 11237), (8, 11279), (10, 11294), (11, 11297), (12, 11318), (13, 11333), (15, 11384), (18, 11462), (21, 11483), (22, 11489), (26, 11552), (31, 11648), (32, 11654), (33, 11657), (35, 11669), (47, 11843), (49, 11861), (50, 11879), (52, 11897), (54, 11933), (55, 11942),

Gene: Fowlmouth_20 Start: 11198, Stop: 12287, Start Num: 2
Candidate Starts for Fowlmouth_20:
(Start: 2 @11198 has 23 MA's), (4, 11225), (5, 11237), (8, 11279), (10, 11294), (11, 11297), (12, 11318), (13, 11333), (15, 11384), (18, 11462), (21, 11483), (22, 11489), (26, 11552), (31, 11648), (32, 11654), (33, 11657), (35, 11669), (47, 11843), (49, 11861), (50, 11879), (52, 11897), (54, 11933), (55, 11942), (59, 12035), (60, 12038),

Gene: Gimesa_26 Start: 15716, Stop: 16492, Start Num: 1
Candidate Starts for Gimesa_26:
(Start: 1 @15716 has 4 MA's), (3, 15731), (7, 15785), (9, 15815), (19, 15968), (27, 16082), (28, 16094), (30, 16118), (35, 16169), (38, 16214), (39, 16217), (41, 16283), (46, 16340), (49, 16373), (51, 16403), (52, 16409), (53, 16442), (55, 16454),

Gene: Indlulamithi_22 Start: 13331, Stop: 14158, Start Num: 2
Candidate Starts for Indlulamithi_22:
(Start: 2 @13331 has 23 MA's), (6, 13391), (14, 13511), (15, 13544), (16, 13589), (20, 13631), (21, 13640), (22, 13646), (23, 13649), (24, 13673), (29, 13775), (32, 13814), (34, 13826), (35, 13829), (36, 13859), (37, 13871), (40, 13916), (43, 13958), (45, 13979), (48, 14018), (49, 14030), (51, 14060), (52, 14066), (53, 14099), (55, 14111), (56, 14135),

Gene: MontyDev_25 Start: 15564, Stop: 16340, Start Num: 1
Candidate Starts for MontyDev_25:
(Start: 1 @15564 has 4 MA's), (3, 15579), (7, 15633), (9, 15663), (17, 15807), (19, 15816), (27, 15930), (28, 15942), (30, 15966), (35, 16017), (38, 16062), (39, 16065), (41, 16131), (46, 16188), (49, 16221), (51, 16251), (52, 16257), (53, 16290), (55, 16302),

Gene: MontyDev_26 Start: 15564, Stop: 16671, Start Num: 1
Candidate Starts for MontyDev_26:
(Start: 1 @15564 has 4 MA's), (3, 15579), (7, 15633), (9, 15663), (17, 15807), (19, 15816), (27, 15930), (28, 15942), (30, 15966), (35, 16017), (38, 16062), (39, 16065), (41, 16131), (46, 16188), (49, 16221), (51, 16251), (52, 16257), (53, 16290), (55, 16302), (57, 16344), (58, 16356), (61, 16668),

Gene: MrMiyagi_20 Start: 11218, Stop: 12307, Start Num: 2
Candidate Starts for MrMiyagi_20:
(Start: 2 @11218 has 23 MA's), (4, 11245), (5, 11257), (8, 11299), (10, 11314), (11, 11317), (12, 11338), (13, 11353), (15, 11404), (18, 11482), (21, 11503), (22, 11509), (26, 11572), (31, 11668), (32, 11674), (33, 11677), (35, 11689), (49, 11881), (50, 11899), (52, 11917), (54, 11953), (55, 11962), (59, 12055), (60, 12058),

Gene: MrMiyagi_19 Start: 11218, Stop: 12000, Start Num: 2

Candidate Starts for MrMiyagi_19:
(Start: 2 @11218 has 23 MA's), (4, 11245), (5, 11257), (8, 11299), (10, 11314), (11, 11317), (12, 11338), (13, 11353), (15, 11404), (18, 11482), (21, 11503), (22, 11509), (26, 11572), (31, 11668), (32, 11674), (33, 11677), (35, 11689), (49, 11881), (50, 11899), (52, 11917), (54, 11953), (55, 11962),

Gene: Nilo_27 Start: 15920, Stop: 17027, Start Num: 2
Candidate Starts for Nilo_27:
(Start: 2 @15920 has 23 MA's), (7, 15989), (9, 16019), (17, 16163), (19, 16172), (27, 16286), (28, 16298), (30, 16322), (35, 16373), (38, 16418), (39, 16421), (41, 16487), (46, 16544), (49, 16577), (51, 16607), (52, 16613), (53, 16646), (55, 16658), (57, 16700), (58, 16712), (61, 17024),

Gene: Nilo_26 Start: 15920, Stop: 16696, Start Num: 2
Candidate Starts for Nilo_26:
(Start: 2 @15920 has 23 MA's), (7, 15989), (9, 16019), (17, 16163), (19, 16172), (27, 16286), (28, 16298), (30, 16322), (35, 16373), (38, 16418), (39, 16421), (41, 16487), (46, 16544), (49, 16577), (51, 16607), (52, 16613), (53, 16646), (55, 16658),

Gene: Papyrus_26 Start: 15582, Stop: 16689, Start Num: 2
Candidate Starts for Papyrus_26:
(Start: 2 @15582 has 23 MA's), (7, 15651), (9, 15681), (17, 15825), (19, 15834), (28, 15960), (30, 15984), (35, 16035), (38, 16080), (39, 16083), (41, 16149), (46, 16206), (49, 16239), (51, 16269), (52, 16275), (53, 16308), (55, 16320), (57, 16362), (58, 16374), (61, 16686),

Gene: Papyrus_25 Start: 15582, Stop: 16358, Start Num: 2
Candidate Starts for Papyrus_25:
(Start: 2 @15582 has 23 MA's), (7, 15651), (9, 15681), (17, 15825), (19, 15834), (28, 15960), (30, 15984), (35, 16035), (38, 16080), (39, 16083), (41, 16149), (46, 16206), (49, 16239), (51, 16269), (52, 16275), (53, 16308), (55, 16320),

Gene: Riparian_25 Start: 15381, Stop: 16157, Start Num: 2
Candidate Starts for Riparian_25:
(Start: 2 @15381 has 23 MA's), (7, 15450), (9, 15480), (17, 15624), (19, 15633), (27, 15747), (28, 15759), (30, 15783), (35, 15834), (38, 15879), (39, 15882), (41, 15948), (46, 16005), (49, 16038), (51, 16068), (52, 16074), (53, 16107), (55, 16119),

Gene: Riparian_26 Start: 15381, Stop: 16488, Start Num: 2
Candidate Starts for Riparian_26:
(Start: 2 @15381 has 23 MA's), (7, 15450), (9, 15480), (17, 15624), (19, 15633), (27, 15747), (28, 15759), (30, 15783), (35, 15834), (38, 15879), (39, 15882), (41, 15948), (46, 16005), (49, 16038), (51, 16068), (52, 16074), (53, 16107), (55, 16119), (57, 16161), (58, 16173), (61, 16485),

Gene: Rope_25 Start: 15573, Stop: 16349, Start Num: 2
Candidate Starts for Rope_25:
(Start: 2 @15573 has 23 MA's), (7, 15642), (9, 15672), (17, 15816), (19, 15825), (28, 15951), (30, 15975), (35, 16026), (38, 16071), (39, 16074), (41, 16140), (46, 16197), (49, 16230), (51, 16260), (52, 16266), (53, 16299), (55, 16311),

Gene: Rope_26 Start: 15573, Stop: 16680, Start Num: 2
Candidate Starts for Rope_26:
(Start: 2 @15573 has 23 MA's), (7, 15642), (9, 15672), (17, 15816), (19, 15825), (28, 15951), (30, 15975), (35, 16026), (38, 16071), (39, 16074), (41, 16140), (46, 16197), (49, 16230), (51, 16260), (52, 16266), (53, 16299), (55, 16311), (57, 16353), (58, 16365), (61, 16677),

Gene: Send513_25 Start: 15923, Stop: 16699, Start Num: 2
Candidate Starts for Send513_25:
(Start: 2 @15923 has 23 MA's), (7, 15992), (9, 16022), (17, 16166), (19, 16175), (27, 16289), (28, 16301), (30, 16325), (35, 16376), (38, 16421), (39, 16424), (41, 16490), (46, 16547), (49, 16580), (51, 16610), (52, 16616), (53, 16649), (55, 16661),

Gene: Send513_26 Start: 15923, Stop: 17030, Start Num: 2
Candidate Starts for Send513_26:
(Start: 2 @15923 has 23 MA's), (7, 15992), (9, 16022), (17, 16166), (19, 16175), (27, 16289), (28, 16301), (30, 16325), (35, 16376), (38, 16421), (39, 16424), (41, 16490), (46, 16547), (49, 16580), (51, 16610), (52, 16616), (53, 16649), (55, 16661), (57, 16703), (58, 16715), (61, 17027),

Gene: Weiss13_25 Start: 15613, Stop: 16389, Start Num: 2
Candidate Starts for Weiss13_25:
(Start: 2 @15613 has 23 MA's), (7, 15682), (9, 15712), (17, 15856), (19, 15865), (28, 15991), (30, 16015), (35, 16066), (38, 16111), (39, 16114), (41, 16180), (46, 16237), (49, 16270), (51, 16300), (52, 16306), (53, 16339), (55, 16351),

Gene: Weiss13_26 Start: 15613, Stop: 16720, Start Num: 2
Candidate Starts for Weiss13_26:
(Start: 2 @15613 has 23 MA's), (7, 15682), (9, 15712), (17, 15856), (19, 15865), (28, 15991), (30, 16015), (35, 16066), (38, 16111), (39, 16114), (41, 16180), (46, 16237), (49, 16270), (51, 16300), (52, 16306), (53, 16339), (55, 16351), (57, 16393), (58, 16405), (61, 16717),

Gene: Yelo_26 Start: 15906, Stop: 17013, Start Num: 1
Candidate Starts for Yelo_26:
(Start: 1 @15906 has 4 MA's), (3, 15921), (7, 15975), (9, 16005), (19, 16158), (27, 16272), (28, 16284), (30, 16308), (35, 16359), (38, 16404), (39, 16407), (41, 16473), (46, 16530), (49, 16563), (51, 16593), (52, 16599), (53, 16632), (55, 16644), (57, 16686), (58, 16698), (61, 17010),

Gene: Yelo_25 Start: 15906, Stop: 16682, Start Num: 1
Candidate Starts for Yelo_25:
(Start: 1 @15906 has 4 MA's), (3, 15921), (7, 15975), (9, 16005), (19, 16158), (27, 16272), (28, 16284), (30, 16308), (35, 16359), (38, 16404), (39, 16407), (41, 16473), (46, 16530), (49, 16563), (51, 16593), (52, 16599), (53, 16632), (55, 16644),

Gene: Zenon_26 Start: 15925, Stop: 16701, Start Num: 2
Candidate Starts for Zenon_26:
(Start: 2 @15925 has 23 MA's), (7, 15994), (9, 16024), (17, 16168), (19, 16177), (27, 16291), (28, 16303), (30, 16327), (35, 16378), (38, 16423), (39, 16426), (41, 16492), (46, 16549), (49, 16582), (51, 16612), (52, 16618), (53, 16651), (55, 16663),

Gene: Zenon_27 Start: 15925, Stop: 17032, Start Num: 2
Candidate Starts for Zenon_27:
(Start: 2 @15925 has 23 MA's), (7, 15994), (9, 16024), (17, 16168), (19, 16177), (27, 16291), (28, 16303), (30, 16327), (35, 16378), (38, 16423), (39, 16426), (41, 16492), (46, 16549), (49, 16582), (51, 16612), (52, 16618), (53, 16651), (55, 16663), (57, 16705), (58, 16717), (61, 17029),