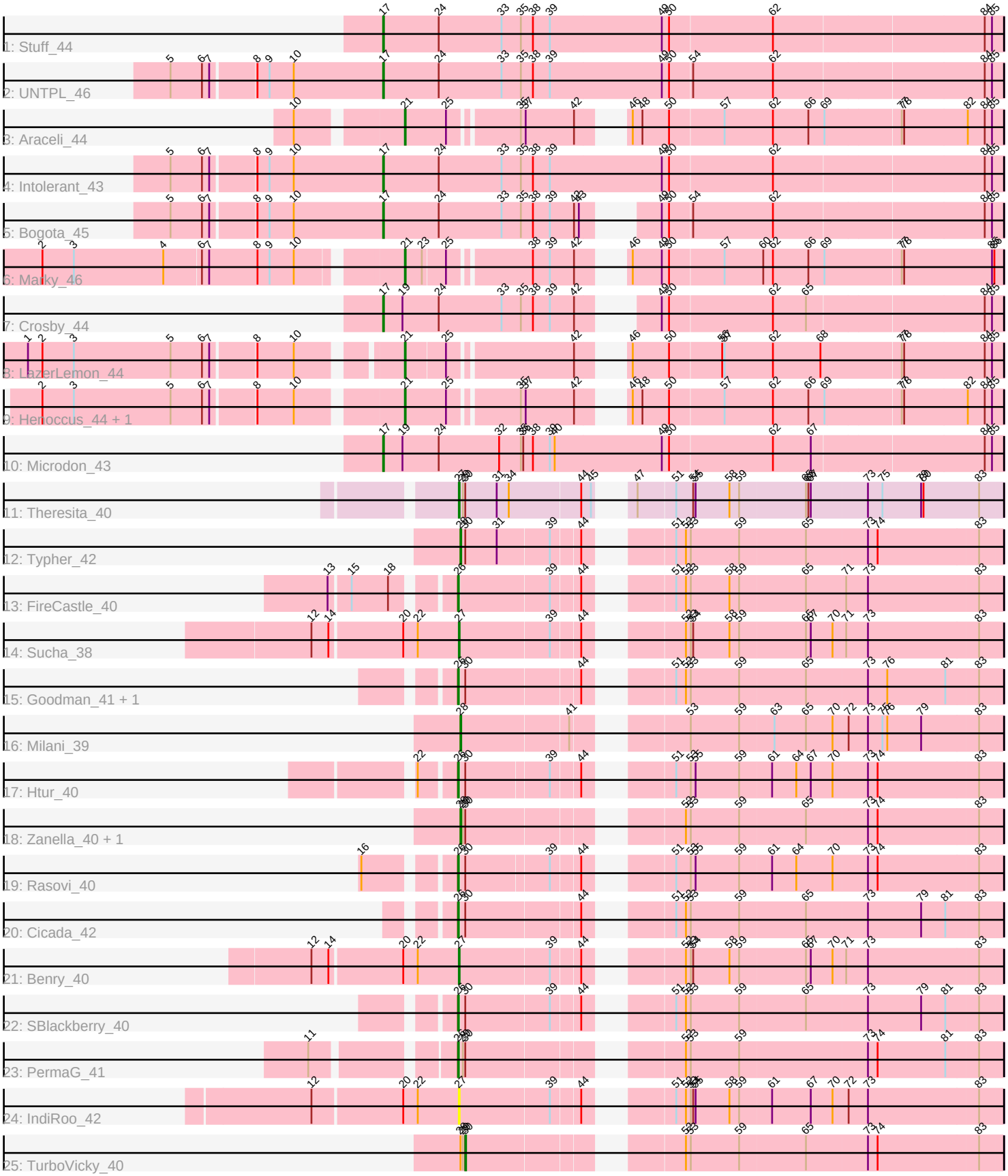
Pham 196752


1: Stuff_44
2: UNTPL_46
3: Araceli_44
4: Intolerant_43
5: Bogota_45
6: Marky_46
7: Crosby_44
8: LazerLemon_44
9: Henoccus_44 + 1
10: Microdon_43
11: Theresita_40
12: Typher_42
13: FireCastle_40
14: Sucha_38
15: Goodman_41 + 1
16: Milani_39
17: Htur_40
18: Zanella_40 + 1
19: Rasovi_40
20: Cicada_42
21: Benry_40
22: SBlackberry_40
23: PermaG_41
24: IndiRoo_42
25: TurboVicky_40

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 196752 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196752 has 28 members, 1 are drafts.

Phages represented in each track:
- Track 1 : Stuff_44
- Track 2 : UNTPL_46
- Track 3 : Araceli_44
- Track 4 : Intolerant_43
- Track 5 : Bogota_45
- Track 6 : Marky_46
- Track 7 : Crosby_44
- Track 8 : LazerLemon_44
- Track 9 : Henoccus_44, JackieB_44
- Track 10 : Microdon_43
- Track 11 : Theresita_40
- Track 12 : Typher_42
- Track 13 : FireCastle_40
- Track 14 : Sucha_38
- Track 15 : Goodman_41, Johann_41
- Track 16 : Milani_39
- Track 17 : Htur_40
- Track 18 : Zanella_40, Jera_41
- Track 19 : Rasovi_40
- Track 20 : Cicada_42
- Track 21 : Benry_40
- Track 22 : SBlackberry_40
- Track 23 : PermaG_41
- Track 24 : IndiRoo_42
- Track 25 : TurboVicky_40

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

The start number called the most often in the published annotations is 26, it was called in 8 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Cicada_42, FireCastle_40, Goodman_41, Htur_40, Johann_41, PermaG_41, Rasovi_40, SBlackberry_40,

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

Genes that do not have the "Most Annotated" start:
• Araceli_44, Benry_40, Bogota_45, Crosby_44, Henoccus_44, IndiRoo_42, Intolerant_43, JackieB_44, Jera_41, LazerLemon_44, Marky_46, Microdon_43, Milani_39, Stuff_44, Sucha_38, Theresita_40, TurboVicky_40, Typher_42, UNTPL_46, Zanella_40,

Summary by start number:

Start 17:
• Found in 6 of 28 (21.4%) of genes in pham
• Manual Annotations of this start: 6 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bogota_45 (BH), Crosby_44 (BH), Intolerant_43 (BH), Microdon_43 (BH), Stuff_44 (BH), UNTPL_46 (BH),

Start 21:
• Found in 5 of 28 (17.9%) of genes in pham
• Manual Annotations of this start: 5 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Araceli_44 (BH), Henoccus_44 (BH), JackieB_44 (BH), LazerLemon_44 (BH), Marky_46 (BH),

Start 26:
• Found in 8 of 28 (28.6%) of genes in pham
• Manual Annotations of this start: 8 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cicada_42 (EJ), FireCastle_40 (EJ), Goodman_41 (EJ), Htur_40 (EJ), Johann_41 (EJ), PermaG_41 (EJ), Rasovi_40 (EJ), SBlackberry_40 (EJ),

Start 27:
• Found in 4 of 28 (14.3%) of genes in pham
• Manual Annotations of this start: 3 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Benry_40 (EJ), IndiRoo_42 (EJ), Sucha_38 (EJ), Theresita_40 (EA7),

Start 28:
• Found in 5 of 28 (17.9%) of genes in pham
• Manual Annotations of this start: 4 of 27
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Jera_41 (EJ), Milani_39 (EJ), Typher_42 (EJ), Zanella_40 (EJ),

Start 30:
• Found in 12 of 28 (42.9%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 8.3% of time when present
• Phage (with cluster) where this start called: TurboVicky_40 (EJ),

Summary by clusters:

There are 3 clusters represented in this pham: BH, EA7, EJ,

Info for manual annotations of cluster BH:
•Start number 17 was manually annotated 6 times for cluster BH.
•Start number 21 was manually annotated 5 times for cluster BH.

Info for manual annotations of cluster EA7:
•Start number 27 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EJ:
•Start number 26 was manually annotated 8 times for cluster EJ.
•Start number 27 was manually annotated 2 times for cluster EJ.
•Start number 28 was manually annotated 4 times for cluster EJ.
•Start number 30 was manually annotated 1 time for cluster EJ.

Gene Information:

Gene: Araceli_44 Start: 33079, Stop: 33750, Start Num: 21
Candidate Starts for Araceli_44:
(10, 32962), (Start: 21 @33079 has 5 MA's), (25, 33130), (35, 33208), (37, 33214), (42, 33274), (46, 33304), (48, 33316), (50, 33349), (57, 33415), (62, 33475), (66, 33517), (69, 33535), (77, 33625), (78, 33628), (82, 33706), (84, 33727), (85, 33736),

Gene: Benry_40 Start: 25022, Stop: 25630, Start Num: 27
Candidate Starts for Benry_40:
(12, 24845), (14, 24866), (20, 24953), (22, 24971), (Start: 27 @25022 has 3 MA's), (39, 25130), (44, 25163), (52, 25247), (53, 25253), (54, 25256), (58, 25301), (59, 25313), (65, 25394), (67, 25400), (70, 25427), (71, 25442), (73, 25469), (83, 25604),

Gene: Bogota_45 Start: 33597, Stop: 34298, Start Num: 17
Candidate Starts for Bogota_45:
(5, 33342), (6, 33381), (7, 33390), (8, 33441), (9, 33456), (10, 33486), (Start: 17 @33597 has 6 MA's), (24, 33666), (33, 33744), (35, 33768), (38, 33783), (39, 33804), (42, 33834), (43, 33840), (49, 33888), (50, 33897), (54, 33924), (62, 34023), (84, 34275), (85, 34284),

Gene: Cicada_42 Start: 26852, Stop: 27460, Start Num: 26
Candidate Starts for Cicada_42:
(Start: 26 @26852 has 8 MA's), (Start: 30 @26858 has 1 MA's), (44, 26993), (51, 27065), (52, 27077), (53, 27083), (59, 27143), (65, 27224), (73, 27299), (79, 27365), (81, 27395), (83, 27434),

Gene: Crosby_44 Start: 33342, Stop: 34043, Start Num: 17
Candidate Starts for Crosby_44:
(Start: 17 @33342 has 6 MA's), (19, 33366), (24, 33411), (33, 33489), (35, 33513), (38, 33528), (39, 33549), (42, 33579), (49, 33633), (50, 33642), (62, 33768), (65, 33807), (84, 34020), (85, 34029),

Gene: FireCastle_40 Start: 26550, Stop: 27158, Start Num: 26
Candidate Starts for FireCastle_40:

(13, 26418), (15, 26442), (18, 26487), (Start: 26 @26550 has 8 MA's), (39, 26658), (44, 26691), (51, 26763), (52, 26775), (53, 26781), (58, 26829), (59, 26841), (65, 26922), (71, 26970), (73, 26997), (83, 27132),

Gene: Goodman_41 Start: 26757, Stop: 27365, Start Num: 26
Candidate Starts for Goodman_41:
(Start: 26 @26757 has 8 MA's), (Start: 30 @26763 has 1 MA's), (44, 26898), (51, 26970), (52, 26982), (53, 26988), (59, 27048), (65, 27129), (73, 27204), (76, 27228), (81, 27300), (83, 27339),

Gene: Henoccus_44 Start: 33096, Stop: 33767, Start Num: 21
Candidate Starts for Henoccus_44:
(2, 32676), (3, 32715), (5, 32835), (6, 32874), (7, 32883), (8, 32934), (10, 32979), (Start: 21 @33096 has 5 MA's), (25, 33147), (35, 33225), (37, 33231), (42, 33291), (46, 33321), (48, 33333), (50, 33366), (57, 33432), (62, 33492), (66, 33534), (69, 33552), (77, 33642), (78, 33645), (82, 33723), (84, 33744), (85, 33753),

Gene: Htur_40 Start: 26856, Stop: 27461, Start Num: 26
Candidate Starts for Htur_40:
(22, 26814), (Start: 26 @26856 has 8 MA's), (Start: 30 @26862 has 1 MA's), (39, 26961), (44, 26994), (51, 27066), (53, 27084), (55, 27090), (59, 27144), (61, 27183), (64, 27213), (67, 27231), (70, 27258), (73, 27300), (74, 27312), (83, 27435),

Gene: IndiRoo_42 Start: 25292, Stop: 25900, Start Num: 27
Candidate Starts for IndiRoo_42:
(12, 25115), (20, 25223), (22, 25241), (Start: 27 @25292 has 3 MA's), (39, 25400), (44, 25433), (51, 25505), (52, 25517), (53, 25523), (54, 25526), (55, 25529), (58, 25571), (59, 25583), (61, 25622), (67, 25670), (70, 25697), (72, 25715), (73, 25739), (83, 25874),

Gene: Intolerant_43 Start: 33235, Stop: 33990, Start Num: 17
Candidate Starts for Intolerant_43:
(5, 32980), (6, 33019), (7, 33028), (8, 33079), (9, 33094), (10, 33124), (Start: 17 @33235 has 6 MA's), (24, 33304), (33, 33382), (35, 33406), (38, 33421), (39, 33442), (49, 33580), (50, 33589), (62, 33715), (84, 33967), (85, 33976),

Gene: JackieB_44 Start: 32935, Stop: 33606, Start Num: 21
Candidate Starts for JackieB_44:
(2, 32515), (3, 32554), (5, 32674), (6, 32713), (7, 32722), (8, 32773), (10, 32818), (Start: 21 @32935 has 5 MA's), (25, 32986), (35, 33064), (37, 33070), (42, 33130), (46, 33160), (48, 33172), (50, 33205), (57, 33271), (62, 33331), (66, 33373), (69, 33391), (77, 33481), (78, 33484), (82, 33562), (84, 33583), (85, 33592),

Gene: Jera_41 Start: 25784, Stop: 26392, Start Num: 28
Candidate Starts for Jera_41:
(Start: 28 @25784 has 4 MA's), (29, 25787), (Start: 30 @25790 has 1 MA's), (52, 26009), (53, 26015), (59, 26075), (65, 26156), (73, 26231), (74, 26243), (83, 26366),

Gene: Johann_41 Start: 26757, Stop: 27365, Start Num: 26
Candidate Starts for Johann_41:
(Start: 26 @26757 has 8 MA's), (Start: 30 @26763 has 1 MA's), (44, 26898), (51, 26970), (52, 26982), (53, 26988), (59, 27048), (65, 27129), (73, 27204), (76, 27228), (81, 27300), (83, 27339),

Gene: LazerLemon_44 Start: 33723, Stop: 34394, Start Num: 21
Candidate Starts for LazerLemon_44:

(1, 33294), (2, 33312), (3, 33351), (5, 33471), (6, 33510), (7, 33519), (8, 33570), (10, 33615), (Start: 21 @33723 has 5 MA's), (25, 33771), (42, 33915), (46, 33945), (50, 33990), (56, 34053), (57, 34056), (62, 34116), (68, 34173), (77, 34269), (78, 34272), (84, 34371), (85, 34380),

Gene: Marky_46 Start: 33813, Stop: 34481, Start Num: 21
Candidate Starts for Marky_46:
(2, 33393), (3, 33432), (4, 33543), (6, 33588), (7, 33597), (8, 33657), (9, 33672), (10, 33702), (Start: 21 @33813 has 5 MA's), (23, 33834), (25, 33861), (38, 33954), (39, 33975), (42, 34005), (46, 34035), (49, 34071), (50, 34080), (57, 34146), (60, 34194), (62, 34206), (66, 34248), (69, 34266), (77, 34356), (78, 34359), (85, 34467), (86, 34470),

Gene: Microdon_43 Start: 33041, Stop: 33796, Start Num: 17
Candidate Starts for Microdon_43:
(Start: 17 @33041 has 6 MA's), (19, 33065), (24, 33110), (32, 33185), (35, 33212), (36, 33215), (38, 33227), (39, 33248), (40, 33254), (49, 33386), (50, 33395), (62, 33521), (67, 33566), (84, 33773), (85, 33782),

Gene: Milani_39 Start: 25369, Stop: 25977, Start Num: 28
Candidate Starts for Milani_39:
(Start: 28 @25369 has 4 MA's), (41, 25498), (53, 25600), (59, 25660), (63, 25702), (65, 25741), (70, 25774), (72, 25792), (73, 25816), (75, 25834), (76, 25840), (79, 25882), (83, 25951),

Gene: PermaG_41 Start: 26661, Stop: 27269, Start Num: 26
Candidate Starts for PermaG_41:
(11, 26508), (Start: 26 @26661 has 8 MA's), (29, 26664), (Start: 30 @26667 has 1 MA's), (52, 26886), (53, 26892), (59, 26952), (73, 27108), (74, 27120), (81, 27204), (83, 27243),

Gene: Rasovi_40 Start: 26856, Stop: 27461, Start Num: 26
Candidate Starts for Rasovi_40:
(16, 26760), (Start: 26 @26856 has 8 MA's), (Start: 30 @26862 has 1 MA's), (39, 26961), (44, 26994), (51, 27066), (53, 27084), (55, 27090), (59, 27144), (61, 27183), (64, 27213), (70, 27258), (73, 27300), (74, 27312), (83, 27435),

Gene: SBlackberry_40 Start: 26630, Stop: 27238, Start Num: 26
Candidate Starts for SBlackberry_40:
(Start: 26 @26630 has 8 MA's), (Start: 30 @26636 has 1 MA's), (39, 26738), (44, 26771), (51, 26843), (52, 26855), (53, 26861), (59, 26921), (65, 27002), (73, 27077), (79, 27143), (81, 27173), (83, 27212),

Gene: Stuff_44 Start: 33521, Stop: 34276, Start Num: 17
Candidate Starts for Stuff_44:
(Start: 17 @33521 has 6 MA's), (24, 33590), (33, 33668), (35, 33692), (38, 33707), (39, 33728), (49, 33866), (50, 33875), (62, 34001), (84, 34253), (85, 34262),

Gene: Sucha_38 Start: 24242, Stop: 24850, Start Num: 27
Candidate Starts for Sucha_38:
(12, 24065), (14, 24086), (20, 24173), (22, 24191), (Start: 27 @24242 has 3 MA's), (39, 24350), (44, 24383), (52, 24467), (53, 24473), (54, 24476), (58, 24521), (59, 24533), (65, 24614), (67, 24620), (70, 24647), (71, 24662), (73, 24689), (83, 24824),

Gene: Theresita_40 Start: 25288, Stop: 25905, Start Num: 27
Candidate Starts for Theresita_40:
(Start: 27 @25288 has 3 MA's), (29, 25291), (Start: 30 @25294 has 1 MA's), (31, 25333), (34, 25348), (44, 25435), (45, 25447), (47, 25462), (51, 25507), (54, 25528), (55, 25531), (58, 25573), (59, 25585),

(65, 25666), (66, 25669), (67, 25672), (73, 25741), (75, 25759), (79, 25807), (80, 25810), (83, 25879),

Gene: TurboVicky_40 Start: 26538, Stop: 27140, Start Num: 30
Candidate Starts for TurboVicky_40:
(Start: 28 @26532 has 4 MA's), (29, 26535), (Start: 30 @26538 has 1 MA's), (52, 26757), (53, 26763), (59, 26823), (65, 26904), (73, 26979), (74, 26991), (83, 27114),

Gene: Typher_42 Start: 26650, Stop: 27258, Start Num: 28
Candidate Starts for Typher_42:
(Start: 28 @26650 has 4 MA's), (Start: 30 @26656 has 1 MA's), (31, 26695), (39, 26758), (44, 26791), (51, 26863), (52, 26875), (53, 26881), (59, 26941), (65, 27022), (73, 27097), (74, 27109), (83, 27232),

Gene: UNTPL_46 Start: 33578, Stop: 34333, Start Num: 17
Candidate Starts for UNTPL_46:
(5, 33323), (6, 33362), (7, 33371), (8, 33422), (9, 33437), (10, 33467), (Start: 17 @33578 has 6 MA's), (24, 33647), (33, 33725), (35, 33749), (38, 33764), (39, 33785), (49, 33923), (50, 33932), (54, 33959), (62, 34058), (84, 34310), (85, 34319),

Gene: Zanella_40 Start: 26530, Stop: 27138, Start Num: 28
Candidate Starts for Zanella_40:
(Start: 28 @26530 has 4 MA's), (29, 26533), (Start: 30 @26536 has 1 MA's), (52, 26755), (53, 26761), (59, 26821), (65, 26902), (73, 26977), (74, 26989), (83, 27112),