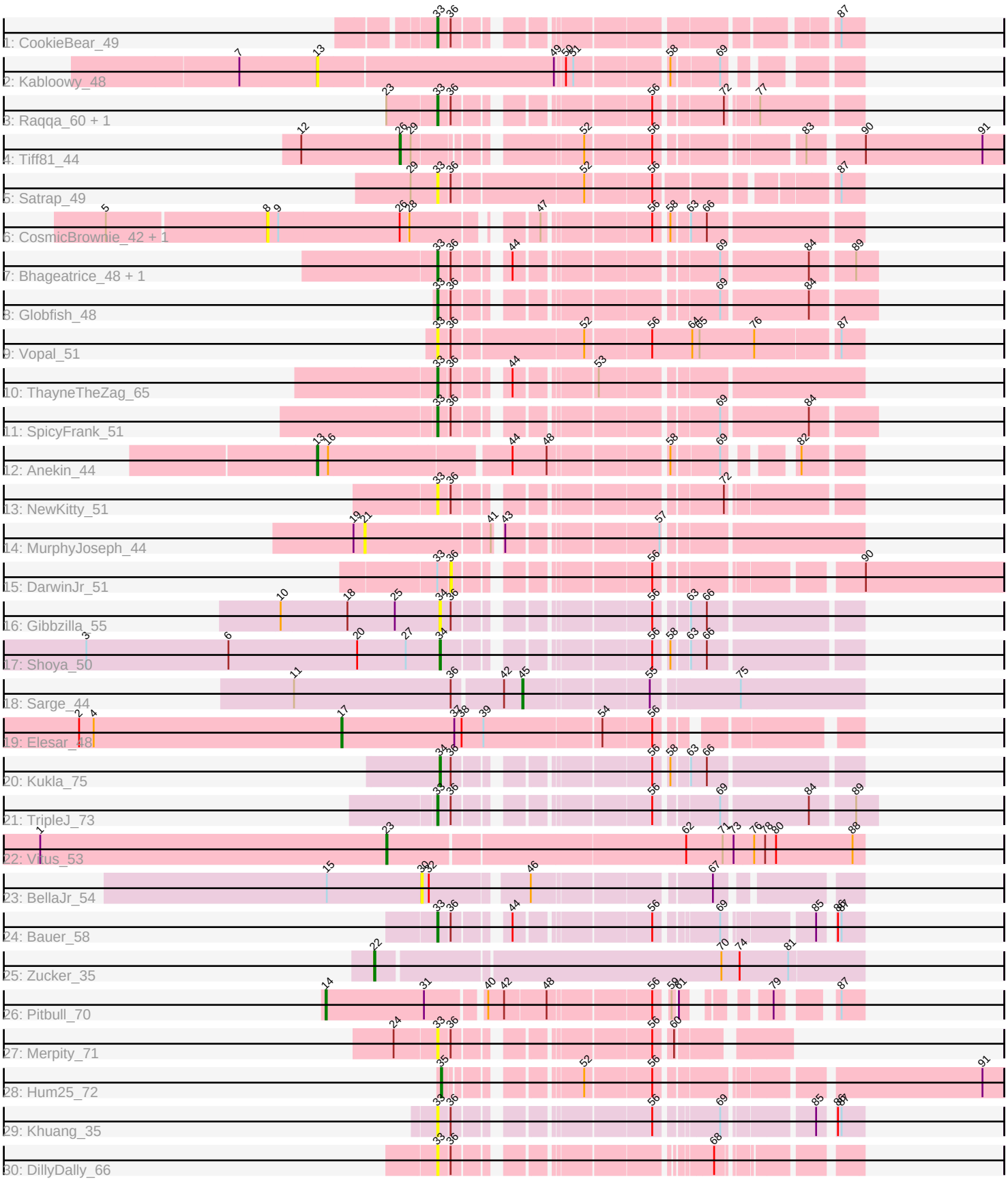
Pham 280690


1: CookieBear_49
2: Kabloowy_48
3: Raqqa_60 + 1
4: Tiff81_44
5: Satrap_49
6: CosmicBrownie_42 + 1
7: Bhageatrice_48 + 1
8: Globfish_48
9: Vopal_51
10: ThayneTheZag_65
11: SpicyFrank_51
12: Anekin_44
13: NewKitty_51
14: MurphyJoseph_44
15: DarwinJr_51
16: Gibbzilla_55
17: Shoya_50
18: Sarge_44
19: Elesar_48
20: Kukla_75
21: TripleJ_73
22: Vitus_53
23: BellaJr_54
24: Bauer_58
25: Zucker_35
26: Pitbull_70
27: Merpity_71
28: Hum25_72
29: Khuang_35
30: DillyDally_66

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 280690 Report

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

Pham number 280690 has 33 members, 15 are drafts.

Phages represented in each track:
- Track 1 : CookieBear_49
- Track 2 : Kabloowy_48
- Track 3 : Raqqa_60, BrayBeast_49
- Track 4 : Tiff81_44
- Track 5 : Satrap_49
- Track 6 : CosmicBrownie_42, GumGum_45
- Track 7 : Bhageatrice_48, Crescenzo_48
- Track 8 : Globfish_48
- Track 9 : Vopal_51
- Track 10 : ThayneTheZag_65
- Track 11 : SpicyFrank_51
- Track 12 : Anekin_44
- Track 13 : NewKitty_51
- Track 14 : MurphyJoseph_44
- Track 15 : DarwinJr_51
- Track 16 : Gibbzilla_55
- Track 17 : Shoya_50
- Track 18 : Sarge_44
- Track 19 : Elesar_48
- Track 20 : Kukla_75
- Track 21 : TripleJ_73
- Track 22 : Vitus_53
- Track 23 : BellaJr_54
- Track 24 : Bauer_58
- Track 25 : Zucker_35
- Track 26 : Pitbull_70
- Track 27 : Merpity_71
- Track 28 : Hum25_72
- Track 29 : Khuang_35
- Track 30 : DillyDally_66

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 8 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bauer_58, Bhageatrice_48, BrayBeast_49, CookieBear_49, Crescenzo_48, DillyDally_66, Globfish_48, Khuang_35, Merpity_71, NewKitty_51, Raqqa_60, Satrap_49, SpicyFrank_51, ThayneTheZag_65, TripleJ_73, Vopal_51,

Genes that have the "Most Annotated" start but do not call it:
• DarwinJr_51,

Genes that do not have the "Most Annotated" start:
• Anekin_44, BellaJr_54, CosmicBrownie_42, Elesar_48, Gibbzilla_55, GumGum_45, Hum25_72, Kabloowy_48, Kukla_75, MurphyJoseph_44, Pitbull_70, Sarge_44, Shoya_50, Tiff81_44, Vitus_53, Zucker_35,

Summary by start number:

Start 8:
• Found in 2 of 33 (6.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CosmicBrownie_42 (AY), GumGum_45 (AY),

Start 13:
• Found in 2 of 33 (6.1%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anekin_44 (AY), Kabloowy_48 (AY),

Start 14:
• Found in 1 of 33 (3.0%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pitbull_70 (FQ),

Start 17:
• Found in 1 of 33 (3.0%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Elesar_48 (FF),

Start 21:
• Found in 1 of 33 (3.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MurphyJoseph_44 (AY),

Start 22:
• Found in 1 of 33 (3.0%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Zucker_35 (FN),

Start 23:
• Found in 3 of 33 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Vitus_53 (FL),

Start 26:
• Found in 3 of 33 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Tiff81_44 (AY),

Start 30:
• Found in 1 of 33 (3.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BellaJr_54 (FN),

Start 33:
• Found in 17 of 33 (51.5%) of genes in pham
• Manual Annotations of this start: 8 of 18
• Called 94.1% of time when present
• Phage (with cluster) where this start called: Bauer_58 (FN), Bhageatrice_48 (AY), BrayBeast_49 (FB), CookieBear_49 (AY), Crescenzo_48 (AY), DillyDally_66 (singleton), Globfish_48 (AY), Khuang_35 (FS), Merpity_71 (FQ), NewKitty_51 (AY), Raqqa_60 (AY), Satrap_49 (AY), SpicyFrank_51 (AY), ThayneTheZag_65 (AY), TripleJ_73 (FJ), Vopal_51 (AY),

Start 34:
• Found in 3 of 33 (9.1%) of genes in pham
• Manual Annotations of this start: 2 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gibbzilla_55 (FB), Kukla_75 (FJ), Shoya_50 (FB),

Start 35:
• Found in 1 of 33 (3.0%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hum25_72 (FQ),

Start 36:
• Found in 20 of 33 (60.6%) of genes in pham
• No Manual Annotations of this start.
• Called 5.0% of time when present
• Phage (with cluster) where this start called: DarwinJr_51 (AY),

Start 45:
• Found in 1 of 33 (3.0%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Sarge_44 (FB),

Summary by clusters:

There are 9 clusters represented in this pham: FQ, singleton, FS, FB, FF, AY, FJ, FL, FN,

Info for manual annotations of cluster AY:
•Start number 13 was manually annotated 1 time for cluster AY.
•Start number 26 was manually annotated 1 time for cluster AY.
•Start number 33 was manually annotated 5 times for cluster AY.

Info for manual annotations of cluster FB:
•Start number 33 was manually annotated 1 time for cluster FB.
•Start number 34 was manually annotated 1 time for cluster FB.
•Start number 45 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FF:
•Start number 17 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster FJ:
•Start number 33 was manually annotated 1 time for cluster FJ.
•Start number 34 was manually annotated 1 time for cluster FJ.

Info for manual annotations of cluster FL:
•Start number 23 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster FN:
•Start number 22 was manually annotated 1 time for cluster FN.
•Start number 33 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FQ:
•Start number 14 was manually annotated 1 time for cluster FQ.
•Start number 35 was manually annotated 1 time for cluster FQ.

Gene Information:

Gene: Anekin_44 Start: 29811, Stop: 30191, Start Num: 13
Candidate Starts for Anekin_44:
(Start: 13 @29811 has 1 MA's), (16, 29820), (44, 29958), (48, 29985), (58, 30072), (69, 30108), (82, 30147),

Gene: Bauer_58 Start: 32955, Stop: 33227, Start Num: 33
Candidate Starts for Bauer_58:
(Start: 33 @32955 has 8 MA's), (36, 32964), (44, 32997), (56, 33093), (69, 33135), (85, 33198), (86, 33207), (87, 33210),

Gene: BellaJr_54 Start: 32861, Stop: 33166, Start Num: 30
Candidate Starts for BellaJr_54:
(15, 32783), (30, 32861), (32, 32867), (46, 32939), (67, 33068),

Gene: Bhageatrice_48 Start: 31728, Stop: 32027, Start Num: 33
Candidate Starts for Bhageatrice_48:
(Start: 33 @31728 has 8 MA's), (36, 31737), (44, 31770), (69, 31911), (84, 31977), (89, 32010),

Gene: BrayBeast_49 Start: 28984, Stop: 29268, Start Num: 33
Candidate Starts for BrayBeast_49:
(Start: 23 @28945 has 1 MA's), (Start: 33 @28984 has 8 MA's), (36, 28993), (56, 29122), (72, 29170), (77, 29191),

Gene: CookieBear_49 Start: 30179, Stop: 30457, Start Num: 33
Candidate Starts for CookieBear_49:
(Start: 33 @30179 has 8 MA's), (36, 30188), (87, 30440),

Gene: CosmicBrownie_42 Start: 28661, Stop: 29080, Start Num: 8
Candidate Starts for CosmicBrownie_42:
(5, 28532), (8, 28661), (9, 28670), (Start: 26 @28769 has 1 MA's), (28, 28775), (47, 28853), (56, 28931), (58, 28940), (63, 28952), (66, 28964),

Gene: Crescenzo_48 Start: 30815, Stop: 31114, Start Num: 33
Candidate Starts for Crescenzo_48:
(Start: 33 @30815 has 8 MA's), (36, 30824), (44, 30857), (69, 30998), (84, 31064), (89, 31097),

Gene: DarwinJr_51 Start: 31100, Stop: 31480, Start Num: 36
Candidate Starts for DarwinJr_51:
(Start: 33 @31091 has 8 MA's), (36, 31100), (56, 31229), (90, 31367),

Gene: DillyDally_66 Start: 38118, Stop: 38381, Start Num: 33
Candidate Starts for DillyDally_66:
(Start: 33 @38118 has 8 MA's), (36, 38127), (68, 38289),

Gene: Elesar_48 Start: 36967, Stop: 37350, Start Num: 17
Candidate Starts for Elesar_48:
(2, 36751), (4, 36763), (Start: 17 @36967 has 1 MA's), (37, 37060), (38, 37066), (39, 37084), (54, 37177), (56, 37216),

Gene: Gibbzilla_55 Start: 29845, Stop: 30132, Start Num: 34
Candidate Starts for Gibbzilla_55:
(10, 29716), (18, 29770), (25, 29809), (Start: 34 @29845 has 2 MA's), (36, 29854), (56, 29983), (63, 30004), (66, 30016),

Gene: Globfish_48 Start: 30153, Stop: 30452, Start Num: 33
Candidate Starts for Globfish_48:
(Start: 33 @30153 has 8 MA's), (36, 30162), (69, 30336), (84, 30402),

Gene: GumGum_45 Start: 29081, Stop: 29500, Start Num: 8
Candidate Starts for GumGum_45:
(5, 28952), (8, 29081), (9, 29090), (Start: 26 @29189 has 1 MA's), (28, 29195), (47, 29273), (56, 29351), (58, 29360), (63, 29372), (66, 29384),

Gene: Hum25_72 Start: 38173, Stop: 38556, Start Num: 35
Candidate Starts for Hum25_72:
(Start: 35 @38173 has 1 MA's), (52, 38254), (56, 38305), (91, 38539),

Gene: Kabloowy_48 Start: 30785, Stop: 31174, Start Num: 13
Candidate Starts for Kabloowy_48:
(7, 30722), (Start: 13 @30785 has 1 MA's), (49, 30974), (50, 30980), (51, 30986), (58, 31055), (69, 31091),

Gene: Khuang_35 Start: 24689, Stop: 24417, Start Num: 33
Candidate Starts for Khuang_35:
(Start: 33 @24689 has 8 MA's), (36, 24680), (56, 24551), (69, 24509), (85, 24446), (86, 24437), (87, 24434),

Gene: Kukla_75 Start: 42658, Stop: 42945, Start Num: 34
Candidate Starts for Kukla_75:
(Start: 34 @42658 has 2 MA's), (36, 42667), (56, 42796), (58, 42805), (63, 42817), (66, 42829),

Gene: Merpity_71 Start: 37923, Stop: 38150, Start Num: 33
Candidate Starts for Merpity_71:
(24, 37890), (Start: 33 @37923 has 8 MA's), (36, 37932), (56, 38061), (60, 38073),

Gene: MurphyJoseph_44 Start: 28936, Stop: 29292, Start Num: 21
Candidate Starts for MurphyJoseph_44:
(19, 28927), (21, 28936), (41, 29032), (43, 29035), (57, 29143),

Gene: NewKitty_51 Start: 30242, Stop: 30526, Start Num: 33
Candidate Starts for NewKitty_51:
(Start: 33 @30242 has 8 MA's), (36, 30251), (72, 30428),

Gene: Pitbull_70 Start: 37588, Stop: 37938, Start Num: 14
Candidate Starts for Pitbull_70:
(Start: 14 @37588 has 1 MA's), (31, 37669), (40, 37711), (42, 37723), (48, 37756), (56, 37834), (59, 37843), (61, 37846), (79, 37888), (87, 37921),

Gene: Raqqa_60 Start: 33013, Stop: 33297, Start Num: 33
Candidate Starts for Raqqa_60:
(Start: 23 @32974 has 1 MA's), (Start: 33 @33013 has 8 MA's), (36, 33022), (56, 33151), (72, 33199), (77, 33220),

Gene: Sarge_44 Start: 27015, Stop: 27275, Start Num: 45
Candidate Starts for Sarge_44:
(11, 26832), (36, 26961), (42, 27000), (Start: 45 @27015 has 1 MA's), (55, 27111), (75, 27177),

Gene: Satrap_49 Start: 30579, Stop: 30881, Start Num: 33
Candidate Starts for Satrap_49:
(29, 30558), (Start: 33 @30579 has 8 MA's), (36, 30588), (52, 30690), (56, 30741), (87, 30864),

Gene: Shoya_50 Start: 29154, Stop: 29441, Start Num: 34
Candidate Starts for Shoya_50:
(3, 28866), (6, 28983), (20, 29088), (27, 29127), (Start: 34 @29154 has 2 MA's), (56, 29292), (58, 29301), (63, 29313), (66, 29325),

Gene: SpicyFrank_51 Start: 30836, Stop: 31135, Start Num: 33
Candidate Starts for SpicyFrank_51:
(Start: 33 @30836 has 8 MA's), (36, 30845), (69, 31019), (84, 31085),

Gene: ThayneTheZag_65 Start: 34279, Stop: 34572, Start Num: 33
Candidate Starts for ThayneTheZag_65:
(Start: 33 @34279 has 8 MA's), (36, 34288), (44, 34321), (53, 34375),

Gene: Tiff81_44 Start: 28183, Stop: 28605, Start Num: 26
Candidate Starts for Tiff81_44:
(12, 28102), (Start: 26 @28183 has 1 MA's), (29, 28192), (52, 28303), (56, 28354), (83, 28453), (90, 28492), (91, 28588),

Gene: TripleJ_73 Start: 41236, Stop: 41535, Start Num: 33
Candidate Starts for TripleJ_73:
(Start: 33 @41236 has 8 MA's), (36, 41245), (56, 41374), (69, 41419), (84, 41485), (89, 41518),

Gene: Vitus_53 Start: 37944, Stop: 38321, Start Num: 23
Candidate Starts for Vitus_53:
(1, 37659), (Start: 23 @37944 has 1 MA's), (62, 38178), (71, 38208), (73, 38217), (76, 38232), (78, 38241), (80, 38250), (88, 38313),

Gene: Vopal_51 Start: 33363, Stop: 33689, Start Num: 33
Candidate Starts for Vopal_51:
(Start: 33 @33363 has 8 MA's), (36, 33372), (52, 33474), (56, 33525), (64, 33558), (65, 33564), (76, 33609), (87, 33672),

Gene: Zucker_35 Start: 27460, Stop: 27846, Start Num: 22
Candidate Starts for Zucker_35:
(Start: 22 @27460 has 1 MA's), (70, 27733), (74, 27748), (81, 27787),