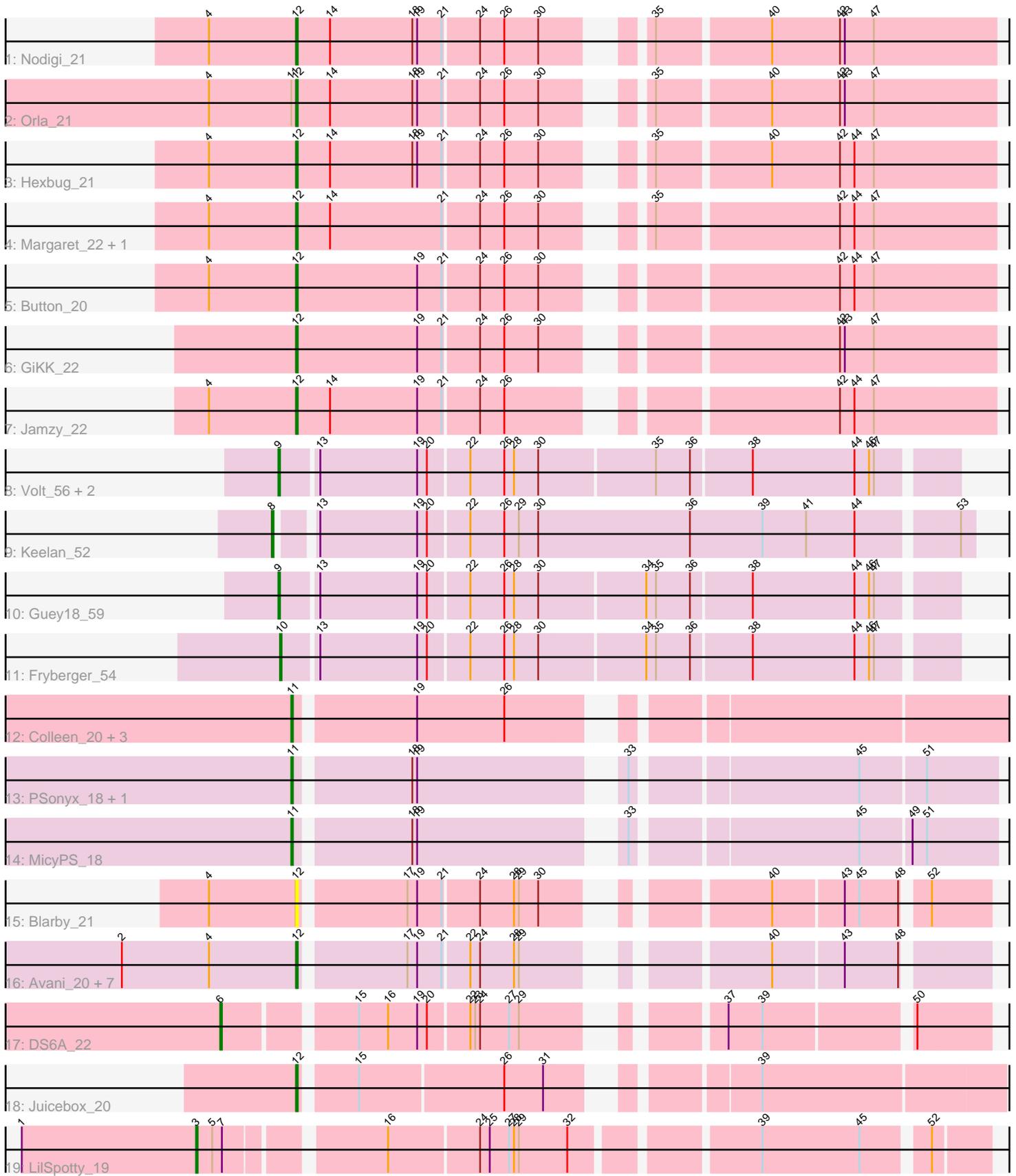


# Pham 289611



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 289611 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289611 has 33 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Nodigi\_21
- Track 2 : Orla\_21
- Track 3 : Hexbug\_21
- Track 4 : Margaret\_22, RanchParmCat\_22
- Track 5 : Button\_20
- Track 6 : GiKK\_22
- Track 7 : Jamzy\_22
- Track 8 : Volt\_56, Ronaldo\_57, Ziko\_57
- Track 9 : Keelan\_52
- Track 10 : Guey18\_59
- Track 11 : Fryberger\_54
- Track 12 : Colleen\_20, Poushou\_20, Arianna\_20, TouchMeNot\_20
- Track 13 : PSonyx\_18, Taotie\_18
- Track 14 : MicyPS\_18
- Track 15 : Blarby\_21
- Track 16 : Avani\_20, Che9d\_20, Jabbawokkie\_22, Demsculpinboyz\_20, Soul22\_20, SilverChicken\_20, Yoshi\_20, Zapner\_21
- Track 17 : DS6A\_22
- Track 18 : Juicebox\_20
- Track 19 : LilSpotty\_19

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

The start number called the most often in the published annotations is 12, it was called in 16 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Avani\_20, Blarby\_21, Button\_20, Che9d\_20, Demsculpinboyz\_20, GiKK\_22, Hexbug\_21, Jabbawokkie\_22, Jamzy\_22, Juicebox\_20, Margaret\_22, Nodigi\_21, Orla\_21, RanchParmCat\_22, SilverChicken\_20, Soul22\_20, Yoshi\_20, Zapner\_21,

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

-

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

- Arianna\_20, Colleen\_20, DS6A\_22, Fryberger\_54, Guey18\_59, Keelan\_52, LilSpotty\_19, MicyPS\_18, PSonyx\_18, Poushou\_20, Ronaldo\_57, Taotie\_18, TouchMeNot\_20, Volt\_56, Ziko\_57,

### Summary by start number:

Start 3:

- Found in 1 of 33 ( 3.0% ) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilSpotty\_19 (singleton),

Start 6:

- Found in 1 of 33 ( 3.0% ) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DS6A\_22 (singleton),

Start 8:

- Found in 1 of 33 ( 3.0% ) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Keelan\_52 (DP),

Start 9:

- Found in 4 of 33 ( 12.1% ) of genes in pham
- Manual Annotations of this start: 4 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Guey18\_59 (DP), Ronaldo\_57 (DP), Volt\_56 (DP), Ziko\_57 (DP),

Start 10:

- Found in 1 of 33 ( 3.0% ) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fryberger\_54 (DP),

Start 11:

- Found in 8 of 33 ( 24.2% ) of genes in pham
- Manual Annotations of this start: 6 of 30
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Arianna\_20 (EO), Colleen\_20 (EO), MicyPS\_18 (EQ), PSonyx\_18 (EQ), Poushou\_20 (EO), Taotie\_18 (EQ), TouchMeNot\_20 (EO),

Start 12:

- Found in 18 of 33 ( 54.5% ) of genes in pham
- Manual Annotations of this start: 16 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Avani\_20 (F2), Blarby\_21 (F), Button\_20 (CT), Che9d\_20 (F2), Demsculpinboyz\_20 (F2), GiKK\_22 (CT), Hexbug\_21 (CT), Jabbawokkie\_22 (F2), Jamzy\_22 (CT), Juicebox\_20 (singleton), Margaret\_22 (CT),

Nodigi\_21 (CT), Orla\_21 (CT), RanchParmCat\_22 (CT), SilverChicken\_20 (F2), Soul22\_20 (F2), Yoshi\_20 (F2), Zapner\_21 (F2),

### **Summary by clusters:**

There are 7 clusters represented in this pham: singleton, F, F2, EO, EQ, DP, CT,

Info for manual annotations of cluster CT:

- Start number 12 was manually annotated 8 times for cluster CT.

Info for manual annotations of cluster DP:

- Start number 8 was manually annotated 1 time for cluster DP.
- Start number 9 was manually annotated 4 times for cluster DP.
- Start number 10 was manually annotated 1 time for cluster DP.

Info for manual annotations of cluster EO:

- Start number 11 was manually annotated 4 times for cluster EO.

Info for manual annotations of cluster EQ:

- Start number 11 was manually annotated 2 times for cluster EQ.

Info for manual annotations of cluster F2:

- Start number 12 was manually annotated 7 times for cluster F2.

### **Gene Information:**

Gene: Arianna\_20 Start: 19090, Stop: 19509, Start Num: 11

Candidate Starts for Arianna\_20:

(Start: 11 @19090 has 6 MA's), (19, 19159), (26, 19213),

Gene: Avani\_20 Start: 15408, Stop: 15773, Start Num: 12

Candidate Starts for Avani\_20:

(2, 15300), (4, 15354), (Start: 12 @15408 has 16 MA's), (17, 15468), (19, 15474), (21, 15489), (22, 15504), (24, 15510), (28, 15531), (29, 15534), (40, 15651), (43, 15693), (48, 15726),

Gene: Blarby\_21 Start: 15928, Stop: 16293, Start Num: 12

Candidate Starts for Blarby\_21:

(4, 15874), (Start: 12 @15928 has 16 MA's), (17, 15988), (19, 15994), (21, 16009), (24, 16030), (28, 16051), (29, 16054), (30, 16066), (40, 16171), (43, 16213), (45, 16222), (48, 16246), (52, 16258),

Gene: Button\_20 Start: 16475, Stop: 16867, Start Num: 12

Candidate Starts for Button\_20:

(4, 16421), (Start: 12 @16475 has 16 MA's), (19, 16550), (21, 16565), (24, 16586), (26, 16601), (30, 16622), (42, 16772), (44, 16781), (47, 16793),

Gene: Che9d\_20 Start: 15416, Stop: 15781, Start Num: 12

Candidate Starts for Che9d\_20:

(2, 15308), (4, 15362), (Start: 12 @15416 has 16 MA's), (17, 15476), (19, 15482), (21, 15497), (22, 15512), (24, 15518), (28, 15539), (29, 15542), (40, 15659), (43, 15701), (48, 15734),

Gene: Colleen\_20 Start: 19090, Stop: 19509, Start Num: 11

Candidate Starts for Colleen\_20:

(Start: 11 @19090 has 6 MA's), (19, 19159), (26, 19213),

Gene: DS6A\_22 Start: 18715, Stop: 19122, Start Num: 6

Candidate Starts for DS6A\_22:

(Start: 6 @18715 has 1 MA's), (15, 18787), (16, 18805), (19, 18823), (20, 18829), (22, 18853), (23, 18856), (24, 18859), (27, 18877), (29, 18883), (37, 18973), (39, 18994), (50, 19078),

Gene: Demsculpinboyz\_20 Start: 15401, Stop: 15766, Start Num: 12

Candidate Starts for Demsculpinboyz\_20:

(2, 15293), (4, 15347), (Start: 12 @15401 has 16 MA's), (17, 15461), (19, 15467), (21, 15482), (22, 15497), (24, 15503), (28, 15524), (29, 15527), (40, 15644), (43, 15686), (48, 15719),

Gene: Fryberger\_54 Start: 29656, Stop: 30054, Start Num: 10

Candidate Starts for Fryberger\_54:

(Start: 10 @29656 has 1 MA's), (13, 29677), (19, 29737), (20, 29743), (22, 29767), (26, 29788), (28, 29794), (30, 29809), (34, 29872), (35, 29878), (36, 29899), (38, 29935), (44, 29998), (46, 30007), (47, 30010),

Gene: GiKK\_22 Start: 16778, Stop: 17170, Start Num: 12

Candidate Starts for GiKK\_22:

(Start: 12 @16778 has 16 MA's), (19, 16853), (21, 16868), (24, 16889), (26, 16904), (30, 16925), (42, 17075), (43, 17078), (47, 17096),

Gene: Guey18\_59 Start: 30848, Stop: 31246, Start Num: 9

Candidate Starts for Guey18\_59:

(Start: 9 @30848 has 4 MA's), (13, 30869), (19, 30929), (20, 30935), (22, 30959), (26, 30980), (28, 30986), (30, 31001), (34, 31064), (35, 31070), (36, 31091), (38, 31127), (44, 31190), (46, 31199), (47, 31202),

Gene: Hexbug\_21 Start: 17464, Stop: 17856, Start Num: 12

Candidate Starts for Hexbug\_21:

(4, 17410), (Start: 12 @17464 has 16 MA's), (14, 17485), (18, 17536), (19, 17539), (21, 17554), (24, 17575), (26, 17590), (30, 17611), (35, 17653), (40, 17719), (42, 17761), (44, 17770), (47, 17782),

Gene: Jabbawokkie\_22 Start: 15931, Stop: 16296, Start Num: 12

Candidate Starts for Jabbawokkie\_22:

(2, 15823), (4, 15877), (Start: 12 @15931 has 16 MA's), (17, 15991), (19, 15997), (21, 16012), (22, 16027), (24, 16033), (28, 16054), (29, 16057), (40, 16174), (43, 16216), (48, 16249),

Gene: Jamzy\_22 Start: 16788, Stop: 17180, Start Num: 12

Candidate Starts for Jamzy\_22:

(4, 16734), (Start: 12 @16788 has 16 MA's), (14, 16809), (19, 16863), (21, 16878), (24, 16899), (26, 16914), (42, 17085), (44, 17094), (47, 17106),

Gene: Juicebox\_20 Start: 19400, Stop: 19786, Start Num: 12

Candidate Starts for Juicebox\_20:

(Start: 12 @19400 has 16 MA's), (15, 19430), (26, 19517), (31, 19541), (39, 19640),

Gene: Keelan\_52 Start: 29645, Stop: 30055, Start Num: 8

Candidate Starts for Keelan\_52:

(Start: 8 @29645 has 1 MA's), (13, 29663), (19, 29723), (20, 29729), (22, 29753), (26, 29774), (29, 29783), (30, 29795), (36, 29888), (39, 29933), (41, 29960), (44, 29990), (53, 30047),

Gene: LilSpotty\_19 Start: 16427, Stop: 16867, Start Num: 3

Candidate Starts for LilSpotty\_19:

(1, 16319), (Start: 3 @16427 has 1 MA's), (5, 16436), (7, 16442), (16, 16529), (24, 16583), (25, 16589), (27, 16601), (28, 16604), (29, 16607), (32, 16637), (39, 16739), (45, 16799), (52, 16835),

Gene: Margaret\_22 Start: 17157, Stop: 17549, Start Num: 12

Candidate Starts for Margaret\_22:

(4, 17103), (Start: 12 @17157 has 16 MA's), (14, 17178), (21, 17247), (24, 17268), (26, 17283), (30, 17304), (35, 17346), (42, 17454), (44, 17463), (47, 17475),

Gene: MicyPS\_18 Start: 19058, Stop: 19444, Start Num: 11

Candidate Starts for MicyPS\_18:

(Start: 11 @19058 has 6 MA's), (18, 19124), (19, 19127), (33, 19235), (45, 19364), (49, 19394), (51, 19403),

Gene: Nodigi\_21 Start: 17443, Stop: 17835, Start Num: 12

Candidate Starts for Nodigi\_21:

(4, 17389), (Start: 12 @17443 has 16 MA's), (14, 17464), (18, 17515), (19, 17518), (21, 17533), (24, 17554), (26, 17569), (30, 17590), (35, 17632), (40, 17698), (42, 17740), (43, 17743), (47, 17761),

Gene: Orla\_21 Start: 17447, Stop: 17839, Start Num: 12

Candidate Starts for Orla\_21:

(4, 17393), (Start: 11 @17444 has 6 MA's), (Start: 12 @17447 has 16 MA's), (14, 17468), (18, 17519), (19, 17522), (21, 17537), (24, 17558), (26, 17573), (30, 17594), (35, 17636), (40, 17702), (42, 17744), (43, 17747), (47, 17765),

Gene: PSonyx\_18 Start: 19173, Stop: 19559, Start Num: 11

Candidate Starts for PSonyx\_18:

(Start: 11 @19173 has 6 MA's), (18, 19239), (19, 19242), (33, 19350), (45, 19479), (51, 19518),

Gene: Poushou\_20 Start: 19090, Stop: 19509, Start Num: 11

Candidate Starts for Poushou\_20:

(Start: 11 @19090 has 6 MA's), (19, 19159), (26, 19213),

Gene: RanchParmCat\_22 Start: 17157, Stop: 17549, Start Num: 12

Candidate Starts for RanchParmCat\_22:

(4, 17103), (Start: 12 @17157 has 16 MA's), (14, 17178), (21, 17247), (24, 17268), (26, 17283), (30, 17304), (35, 17346), (42, 17454), (44, 17463), (47, 17475),

Gene: Ronaldo\_57 Start: 30613, Stop: 31011, Start Num: 9

Candidate Starts for Ronaldo\_57:

(Start: 9 @30613 has 4 MA's), (13, 30634), (19, 30694), (20, 30700), (22, 30724), (26, 30745), (28, 30751), (30, 30766), (35, 30835), (36, 30856), (38, 30892), (44, 30955), (46, 30964), (47, 30967),

Gene: SilverChicken\_20 Start: 15408, Stop: 15773, Start Num: 12

Candidate Starts for SilverChicken\_20:

(2, 15300), (4, 15354), (Start: 12 @15408 has 16 MA's), (17, 15468), (19, 15474), (21, 15489), (22, 15504), (24, 15510), (28, 15531), (29, 15534), (40, 15651), (43, 15693), (48, 15726),

Gene: Soul22\_20 Start: 15406, Stop: 15771, Start Num: 12

Candidate Starts for Soul22\_20:

(2, 15298), (4, 15352), (Start: 12 @15406 has 16 MA's), (17, 15466), (19, 15472), (21, 15487), (22, 15502), (24, 15508), (28, 15529), (29, 15532), (40, 15649), (43, 15691), (48, 15724),

Gene: Taotie\_18 Start: 20067, Stop: 20456, Start Num: 11

Candidate Starts for Taotie\_18:

(Start: 11 @20067 has 6 MA's), (18, 20133), (19, 20136), (33, 20244), (45, 20373), (51, 20412),

Gene: TouchMeNot\_20 Start: 19090, Stop: 19509, Start Num: 11

Candidate Starts for TouchMeNot\_20:

(Start: 11 @19090 has 6 MA's), (19, 19159), (26, 19213),

Gene: Volt\_56 Start: 30613, Stop: 31011, Start Num: 9

Candidate Starts for Volt\_56:

(Start: 9 @30613 has 4 MA's), (13, 30634), (19, 30694), (20, 30700), (22, 30724), (26, 30745), (28, 30751), (30, 30766), (35, 30835), (36, 30856), (38, 30892), (44, 30955), (46, 30964), (47, 30967),

Gene: Yoshi\_20 Start: 15407, Stop: 15772, Start Num: 12

Candidate Starts for Yoshi\_20:

(2, 15299), (4, 15353), (Start: 12 @15407 has 16 MA's), (17, 15467), (19, 15473), (21, 15488), (22, 15503), (24, 15509), (28, 15530), (29, 15533), (40, 15650), (43, 15692), (48, 15725),

Gene: Zapner\_21 Start: 15932, Stop: 16297, Start Num: 12

Candidate Starts for Zapner\_21:

(2, 15824), (4, 15878), (Start: 12 @15932 has 16 MA's), (17, 15992), (19, 15998), (21, 16013), (22, 16028), (24, 16034), (28, 16055), (29, 16058), (40, 16175), (43, 16217), (48, 16250),

Gene: Ziko\_57 Start: 30553, Stop: 30951, Start Num: 9

Candidate Starts for Ziko\_57:

(Start: 9 @30553 has 4 MA's), (13, 30574), (19, 30634), (20, 30640), (22, 30664), (26, 30685), (28, 30691), (30, 30706), (35, 30775), (36, 30796), (38, 30832), (44, 30895), (46, 30904), (47, 30907),