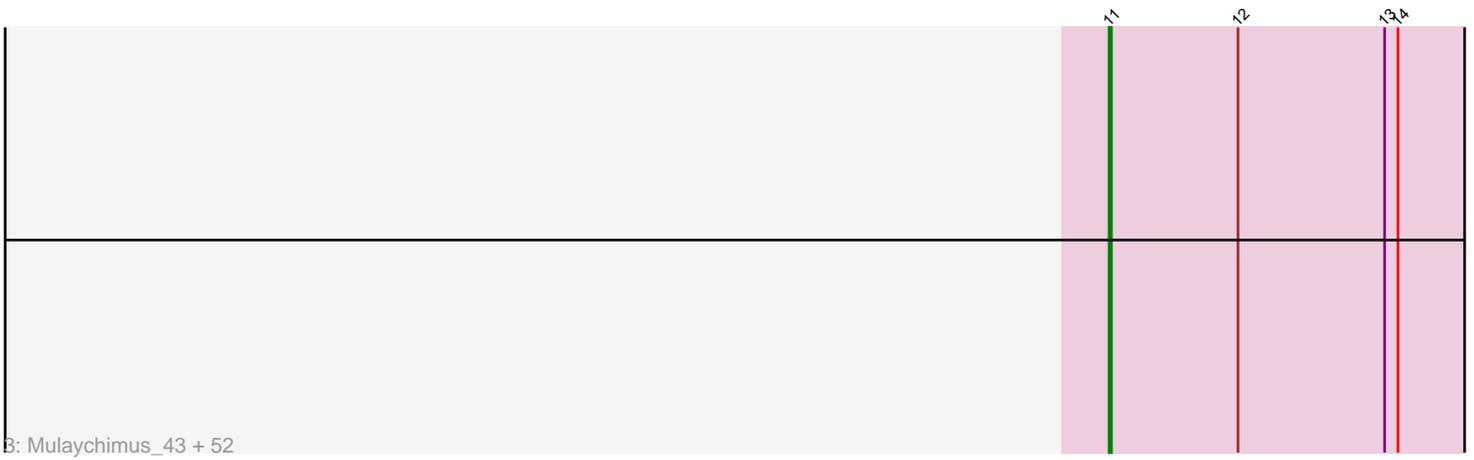
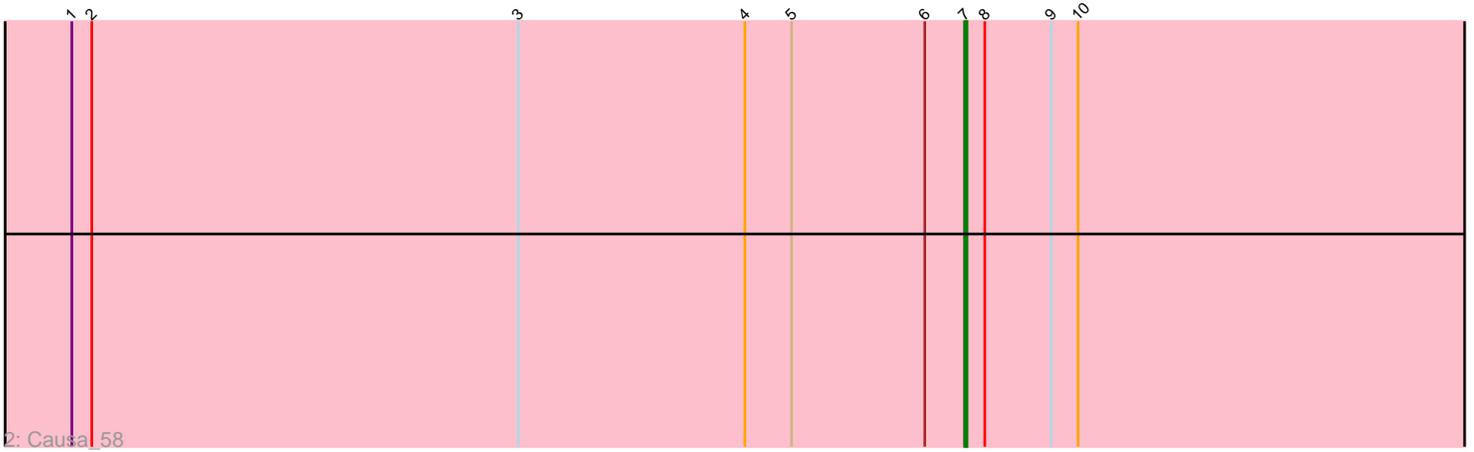
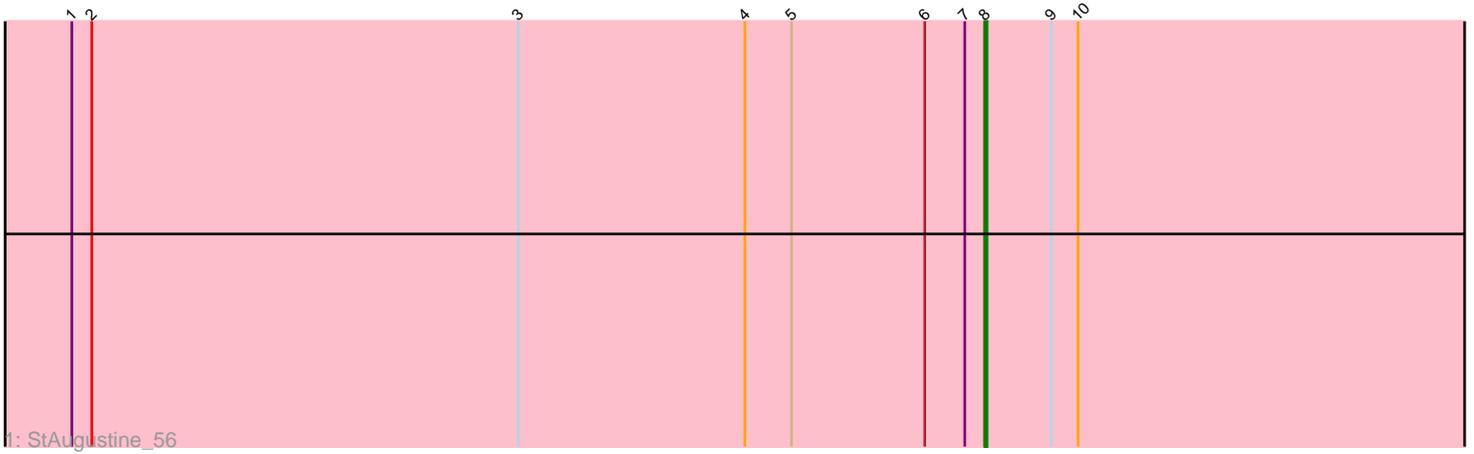


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 289453 Report

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

Pham number 289453 has 55 members, 6 are drafts.

Phages represented in each track:

- Track 1 : StAugustine\_56
- Track 2 : Causa\_58
- Track 3 : Mulaychimus\_43, Halfpint\_42, Phlyer\_43, Olivio\_42, Gervas\_43, Nozo\_43, Neos5\_43, MmasiCarm\_43, Yahalom\_43, Heathcliff\_43, Obutu\_43, GlenHope\_44, Phayeta\_44, Shenandoah\_43, Yinz\_43, Chandler\_43, SynergyX\_43, Phaedrus\_41, Tydolla\_43, Compostia\_44, Briakila\_44, ChaChing\_43, OrangeOswald\_43, SlippinJimmy\_43, Glubnar\_44, Baloo\_43, Corofin\_43, Athena\_44, Akoma\_43, Deenasa\_43, Jackstina\_40, Ben11\_42, Abinghost\_43, LestyG\_43, Gadget\_44, Chalmers\_43, Devonte\_43, Philly\_42, HarveySr\_43, Chentzyk\_43, RomaT\_43, TinyTerror\_43, Audrey\_43, Daisy\_43, Morty007\_43, Casbah\_42, RagingRooster\_43, Rita1961\_43, Kamiyu\_43, Marlia\_43, SwainyDoc\_43, Kronus\_42, Marley1013\_43

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

The start number called the most often in the published annotations is 11, it was called in 47 of the 49 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost\_43, Akoma\_43, Athena\_44, Audrey\_43, Baloo\_43, Ben11\_42, Briakila\_44, Casbah\_42, ChaChing\_43, Chalmers\_43, Chandler\_43, Chentzyk\_43, Compostia\_44, Corofin\_43, Daisy\_43, Deenasa\_43, Devonte\_43, Gadget\_44, Gervas\_43, GlenHope\_44, Glubnar\_44, Halfpint\_42, HarveySr\_43, Heathcliff\_43, Jackstina\_40, Kamiyu\_43, Kronus\_42, LestyG\_43, Marley1013\_43, Marlia\_43, MmasiCarm\_43, Morty007\_43, Mulaychimus\_43, Neos5\_43, Nozo\_43, Obutu\_43, Olivio\_42, OrangeOswald\_43, Phaedrus\_41, Phayeta\_44, Philly\_42, Phlyer\_43, RagingRooster\_43, Rita1961\_43, RomaT\_43, Shenandoah\_43, SlippinJimmy\_43, SwainyDoc\_43, SynergyX\_43, TinyTerror\_43, Tydolla\_43, Yahalom\_43, Yinz\_43,

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

- 

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

- Causa\_58, StAugustine\_56,

## Summary by start number:

### Start 7:

- Found in 2 of 55 ( 3.6% ) of genes in pham
- Manual Annotations of this start: 1 of 49
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Causa\_58 (A1),

### Start 8:

- Found in 2 of 55 ( 3.6% ) of genes in pham
- Manual Annotations of this start: 1 of 49
- Called 50.0% of time when present
- Phage (with cluster) where this start called: StAugustine\_56 (A1),

### Start 11:

- Found in 53 of 55 ( 96.4% ) of genes in pham
- Manual Annotations of this start: 47 of 49
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abinghost\_43 (B3), Akoma\_43 (B3), Athena\_44 (B3), Audrey\_43 (B3), Baloo\_43 (B3), Ben11\_42 (B3), Briakila\_44 (B3), Casbah\_42 (B3), ChaChing\_43 (B3), Chalmers\_43 (B3), Chandler\_43 (B3), Chentzyk\_43 (B3), Compostia\_44 (B3), Corofin\_43 (B3), Daisy\_43 (B3), Deenasa\_43 (B3), Devonte\_43 (B3), Gadget\_44 (B3), Gervas\_43 (B3), GlenHope\_44 (B3), Glubnar\_44 (B3), Halfpint\_42 (B3), HarveySr\_43 (B3), Heathcliff\_43 (B3), Jackstina\_40 (B3), Kamiyu\_43 (B3), Kronus\_42 (B3), LestyG\_43 (B3), Marley1013\_43 (B3), Marlia\_43 (B3), MmasiCarm\_43 (B3), Morty007\_43 (B3), Mulaychimus\_43 (B3), Neos5\_43 (B3), Nozo\_43 (B3), Obutu\_43 (B3), Olivio\_42 (B3), OrangeOswald\_43 (B3), Phaedrus\_41 (B3), Phayeta\_44 (B3), Philly\_42 (B3), Phlyer\_43 (B3), RagingRooster\_43 (B3), Rita1961\_43 (B3), RomaT\_43 (B3), Shenandoah\_43 (B3), SlippinJimmy\_43 (B3), SwainyDoc\_43 (B3), SynergyX\_43 (B3), TinyTerror\_43 (B3), Tydolla\_43 (B3), Yahalom\_43 (B3), Yinz\_43 (B3),

## Summary by clusters:

There are 2 clusters represented in this pham: A1, B3,

### Info for manual annotations of cluster A1:

- Start number 7 was manually annotated 1 time for cluster A1.
- Start number 8 was manually annotated 1 time for cluster A1.

### Info for manual annotations of cluster B3:

- Start number 11 was manually annotated 47 times for cluster B3.

## Gene Information:

Gene: Abinghost\_43 Start: 39027, Stop: 38791, Start Num: 11

Candidate Starts for Abinghost\_43:

(Start: 11 @39027 has 47 MA's), (12, 38970), (13, 38904), (14, 38898),

Gene: Akoma\_43 Start: 39031, Stop: 38795, Start Num: 11

Candidate Starts for Akoma\_43:

(Start: 11 @39031 has 47 MA's), (12, 38974), (13, 38908), (14, 38902),

Gene: Athena\_44 Start: 39778, Stop: 39542, Start Num: 11

Candidate Starts for Athena\_44:

(Start: 11 @39778 has 47 MA's), (12, 39721), (13, 39655), (14, 39649),

Gene: Audrey\_43 Start: 39027, Stop: 38791, Start Num: 11

Candidate Starts for Audrey\_43:

(Start: 11 @39027 has 47 MA's), (12, 38970), (13, 38904), (14, 38898),

Gene: Baloo\_43 Start: 39030, Stop: 38794, Start Num: 11

Candidate Starts for Baloo\_43:

(Start: 11 @39030 has 47 MA's), (12, 38973), (13, 38907), (14, 38901),

Gene: Ben11\_42 Start: 38849, Stop: 38613, Start Num: 11

Candidate Starts for Ben11\_42:

(Start: 11 @38849 has 47 MA's), (12, 38792), (13, 38726), (14, 38720),

Gene: Briakila\_44 Start: 39797, Stop: 39561, Start Num: 11

Candidate Starts for Briakila\_44:

(Start: 11 @39797 has 47 MA's), (12, 39740), (13, 39674), (14, 39668),

Gene: Casbah\_42 Start: 38879, Stop: 38643, Start Num: 11

Candidate Starts for Casbah\_42:

(Start: 11 @38879 has 47 MA's), (12, 38822), (13, 38756), (14, 38750),

Gene: Causa\_58 Start: 47837, Stop: 47532, Start Num: 7

Candidate Starts for Causa\_58:

(1, 48239), (2, 48230), (3, 48038), (4, 47936), (5, 47915), (6, 47855), (Start: 7 @47837 has 1 MA's),  
(Start: 8 @47828 has 1 MA's), (9, 47798), (10, 47786),

Gene: ChaChing\_43 Start: 39042, Stop: 38806, Start Num: 11

Candidate Starts for ChaChing\_43:

(Start: 11 @39042 has 47 MA's), (12, 38985), (13, 38919), (14, 38913),

Gene: Chalmers\_43 Start: 39834, Stop: 39598, Start Num: 11

Candidate Starts for Chalmers\_43:

(Start: 11 @39834 has 47 MA's), (12, 39777), (13, 39711), (14, 39705),

Gene: Chandler\_43 Start: 39810, Stop: 39574, Start Num: 11

Candidate Starts for Chandler\_43:

(Start: 11 @39810 has 47 MA's), (12, 39753), (13, 39687), (14, 39681),

Gene: Chentzyk\_43 Start: 39391, Stop: 39155, Start Num: 11

Candidate Starts for Chentzyk\_43:

(Start: 11 @39391 has 47 MA's), (12, 39334), (13, 39268), (14, 39262),

Gene: Compostia\_44 Start: 39458, Stop: 39222, Start Num: 11

Candidate Starts for Compostia\_44:

(Start: 11 @39458 has 47 MA's), (12, 39401), (13, 39335), (14, 39329),

Gene: Corofin\_43 Start: 39053, Stop: 38817, Start Num: 11

Candidate Starts for Corofin\_43:

(Start: 11 @39053 has 47 MA's), (12, 38996), (13, 38930), (14, 38924),

Gene: Daisy\_43 Start: 39054, Stop: 38818, Start Num: 11

Candidate Starts for Daisy\_43:

(Start: 11 @39054 has 47 MA's), (12, 38997), (13, 38931), (14, 38925),

Gene: Deenasa\_43 Start: 39789, Stop: 39553, Start Num: 11

Candidate Starts for Deenasa\_43:

(Start: 11 @39789 has 47 MA's), (12, 39732), (13, 39666), (14, 39660),

Gene: Devonte\_43 Start: 39018, Stop: 38782, Start Num: 11

Candidate Starts for Devonte\_43:

(Start: 11 @39018 has 47 MA's), (12, 38961), (13, 38895), (14, 38889),

Gene: Gadjet\_44 Start: 39041, Stop: 38805, Start Num: 11

Candidate Starts for Gadjet\_44:

(Start: 11 @39041 has 47 MA's), (12, 38984), (13, 38918), (14, 38912),

Gene: Gervas\_43 Start: 39008, Stop: 38772, Start Num: 11

Candidate Starts for Gervas\_43:

(Start: 11 @39008 has 47 MA's), (12, 38951), (13, 38885), (14, 38879),

Gene: GlenHope\_44 Start: 39021, Stop: 38785, Start Num: 11

Candidate Starts for GlenHope\_44:

(Start: 11 @39021 has 47 MA's), (12, 38964), (13, 38898), (14, 38892),

Gene: Glubnar\_44 Start: 39020, Stop: 38784, Start Num: 11

Candidate Starts for Glubnar\_44:

(Start: 11 @39020 has 47 MA's), (12, 38963), (13, 38897), (14, 38891),

Gene: Halfpint\_42 Start: 38847, Stop: 38611, Start Num: 11

Candidate Starts for Halfpint\_42:

(Start: 11 @38847 has 47 MA's), (12, 38790), (13, 38724), (14, 38718),

Gene: HarveySr\_43 Start: 39014, Stop: 38778, Start Num: 11

Candidate Starts for HarveySr\_43:

(Start: 11 @39014 has 47 MA's), (12, 38957), (13, 38891), (14, 38885),

Gene: Heathcliff\_43 Start: 38992, Stop: 38756, Start Num: 11

Candidate Starts for Heathcliff\_43:

(Start: 11 @38992 has 47 MA's), (12, 38935), (13, 38869), (14, 38863),

Gene: Jackstina\_40 Start: 38951, Stop: 38715, Start Num: 11

Candidate Starts for Jackstina\_40:

(Start: 11 @38951 has 47 MA's), (12, 38894), (13, 38828), (14, 38822),

Gene: Kamiyu\_43 Start: 39000, Stop: 38764, Start Num: 11

Candidate Starts for Kamiyu\_43:

(Start: 11 @39000 has 47 MA's), (12, 38943), (13, 38877), (14, 38871),

Gene: Kronus\_42 Start: 39610, Stop: 39374, Start Num: 11

Candidate Starts for Kronus\_42:

(Start: 11 @39610 has 47 MA's), (12, 39553), (13, 39487), (14, 39481),

Gene: LestyG\_43 Start: 39031, Stop: 38795, Start Num: 11  
Candidate Starts for LestyG\_43:  
(Start: 11 @39031 has 47 MA's), (12, 38974), (13, 38908), (14, 38902),

Gene: Marley1013\_43 Start: 39809, Stop: 39573, Start Num: 11  
Candidate Starts for Marley1013\_43:  
(Start: 11 @39809 has 47 MA's), (12, 39752), (13, 39686), (14, 39680),

Gene: Marlia\_43 Start: 39012, Stop: 38776, Start Num: 11  
Candidate Starts for Marlia\_43:  
(Start: 11 @39012 has 47 MA's), (12, 38955), (13, 38889), (14, 38883),

Gene: MmasiCarm\_43 Start: 39013, Stop: 38777, Start Num: 11  
Candidate Starts for MmasiCarm\_43:  
(Start: 11 @39013 has 47 MA's), (12, 38956), (13, 38890), (14, 38884),

Gene: Morty007\_43 Start: 39809, Stop: 39573, Start Num: 11  
Candidate Starts for Morty007\_43:  
(Start: 11 @39809 has 47 MA's), (12, 39752), (13, 39686), (14, 39680),

Gene: Mulaychimus\_43 Start: 38995, Stop: 38759, Start Num: 11  
Candidate Starts for Mulaychimus\_43:  
(Start: 11 @38995 has 47 MA's), (12, 38938), (13, 38872), (14, 38866),

Gene: Neos5\_43 Start: 39824, Stop: 39588, Start Num: 11  
Candidate Starts for Neos5\_43:  
(Start: 11 @39824 has 47 MA's), (12, 39767), (13, 39701), (14, 39695),

Gene: Nozo\_43 Start: 39789, Stop: 39553, Start Num: 11  
Candidate Starts for Nozo\_43:  
(Start: 11 @39789 has 47 MA's), (12, 39732), (13, 39666), (14, 39660),

Gene: Obutu\_43 Start: 39013, Stop: 38777, Start Num: 11  
Candidate Starts for Obutu\_43:  
(Start: 11 @39013 has 47 MA's), (12, 38956), (13, 38890), (14, 38884),

Gene: Olivio\_42 Start: 38882, Stop: 38646, Start Num: 11  
Candidate Starts for Olivio\_42:  
(Start: 11 @38882 has 47 MA's), (12, 38825), (13, 38759), (14, 38753),

Gene: OrangeOswald\_43 Start: 39030, Stop: 38794, Start Num: 11  
Candidate Starts for OrangeOswald\_43:  
(Start: 11 @39030 has 47 MA's), (12, 38973), (13, 38907), (14, 38901),

Gene: Phaedrus\_41 Start: 38950, Stop: 38714, Start Num: 11  
Candidate Starts for Phaedrus\_41:  
(Start: 11 @38950 has 47 MA's), (12, 38893), (13, 38827), (14, 38821),

Gene: Phayeta\_44 Start: 38895, Stop: 38659, Start Num: 11  
Candidate Starts for Phayeta\_44:  
(Start: 11 @38895 has 47 MA's), (12, 38838), (13, 38772), (14, 38766),

Gene: Philly\_42 Start: 38881, Stop: 38645, Start Num: 11  
Candidate Starts for Philly\_42:  
(Start: 11 @38881 has 47 MA's), (12, 38824), (13, 38758), (14, 38752),

Gene: Phlyer\_43 Start: 39769, Stop: 39533, Start Num: 11  
Candidate Starts for Phlyer\_43:  
(Start: 11 @39769 has 47 MA's), (12, 39712), (13, 39646), (14, 39640),

Gene: RagingRooster\_43 Start: 39031, Stop: 38795, Start Num: 11  
Candidate Starts for RagingRooster\_43:  
(Start: 11 @39031 has 47 MA's), (12, 38974), (13, 38908), (14, 38902),

Gene: Rita1961\_43 Start: 39014, Stop: 38778, Start Num: 11  
Candidate Starts for Rita1961\_43:  
(Start: 11 @39014 has 47 MA's), (12, 38957), (13, 38891), (14, 38885),

Gene: RomaT\_43 Start: 39804, Stop: 39568, Start Num: 11  
Candidate Starts for RomaT\_43:  
(Start: 11 @39804 has 47 MA's), (12, 39747), (13, 39681), (14, 39675),

Gene: Shenandoah\_43 Start: 39003, Stop: 38767, Start Num: 11  
Candidate Starts for Shenandoah\_43:  
(Start: 11 @39003 has 47 MA's), (12, 38946), (13, 38880), (14, 38874),

Gene: SlippinJimmy\_43 Start: 39796, Stop: 39560, Start Num: 11  
Candidate Starts for SlippinJimmy\_43:  
(Start: 11 @39796 has 47 MA's), (12, 39739), (13, 39673), (14, 39667),

Gene: StAugustine\_56 Start: 47843, Stop: 47547, Start Num: 8  
Candidate Starts for StAugustine\_56:  
(1, 48254), (2, 48245), (3, 48053), (4, 47951), (5, 47930), (6, 47870), (Start: 7 @47852 has 1 MA's),  
(Start: 8 @47843 has 1 MA's), (9, 47813), (10, 47801),

Gene: SwainyDoc\_43 Start: 39025, Stop: 38789, Start Num: 11  
Candidate Starts for SwainyDoc\_43:  
(Start: 11 @39025 has 47 MA's), (12, 38968), (13, 38902), (14, 38896),

Gene: SynergyX\_43 Start: 39031, Stop: 38795, Start Num: 11  
Candidate Starts for SynergyX\_43:  
(Start: 11 @39031 has 47 MA's), (12, 38974), (13, 38908), (14, 38902),

Gene: TinyTerror\_43 Start: 39016, Stop: 38780, Start Num: 11  
Candidate Starts for TinyTerror\_43:  
(Start: 11 @39016 has 47 MA's), (12, 38959), (13, 38893), (14, 38887),

Gene: Tydolla\_43 Start: 39765, Stop: 39529, Start Num: 11  
Candidate Starts for Tydolla\_43:  
(Start: 11 @39765 has 47 MA's), (12, 39708), (13, 39642), (14, 39636),

Gene: Yahalom\_43 Start: 39041, Stop: 38805, Start Num: 11  
Candidate Starts for Yahalom\_43:  
(Start: 11 @39041 has 47 MA's), (12, 38984), (13, 38918), (14, 38912),

Gene: Yinz\_43 Start: 39067, Stop: 38831, Start Num: 11

Candidate Starts for Yinz\_43:

(Start: 11 @39067 has 47 MA's), (12, 39010), (13, 38944), (14, 38938),