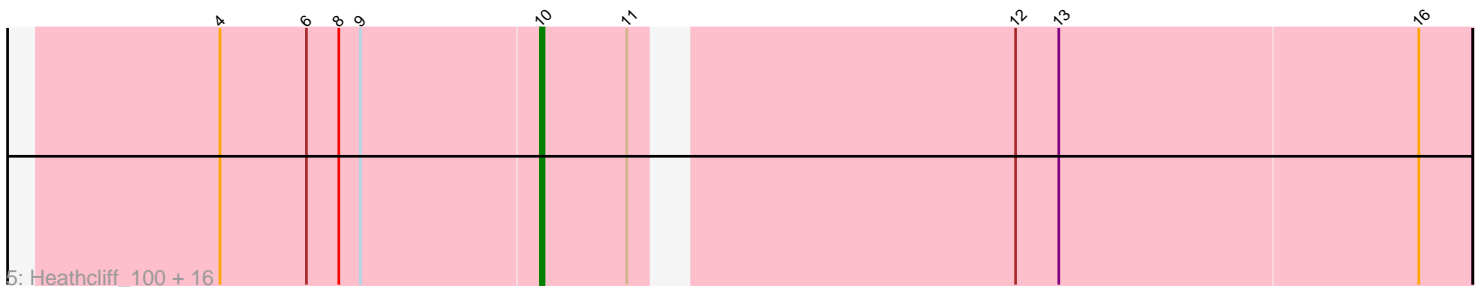
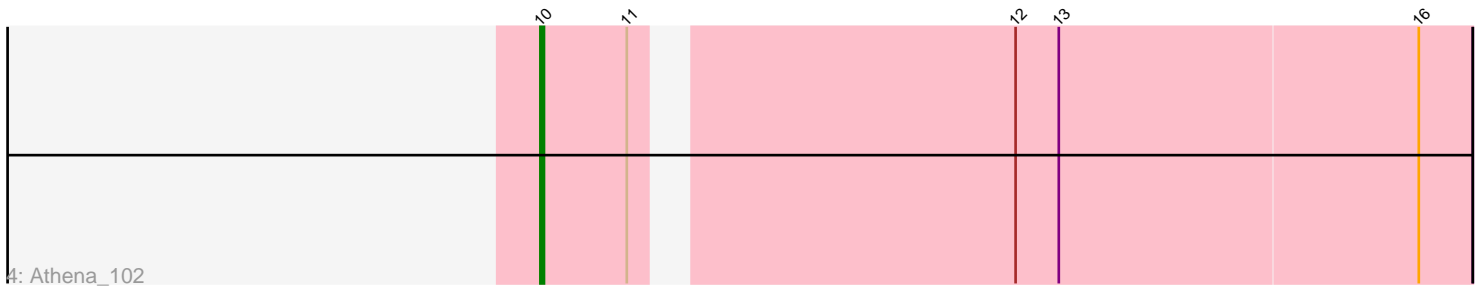
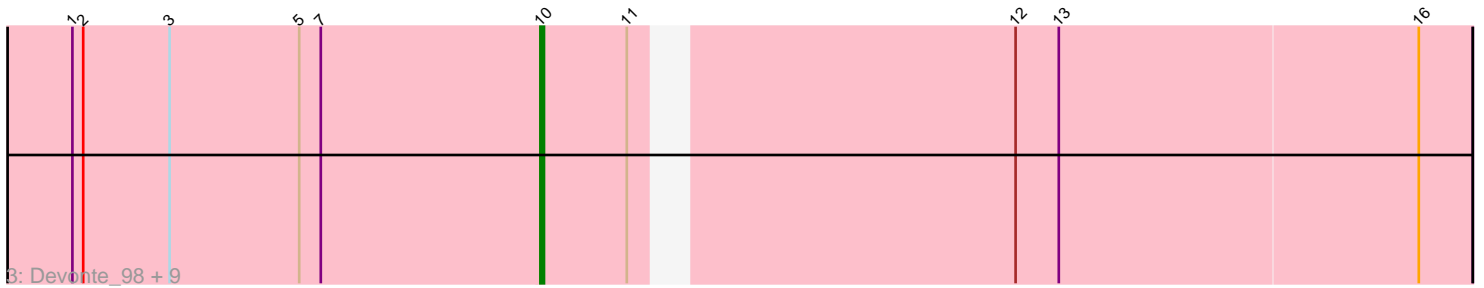
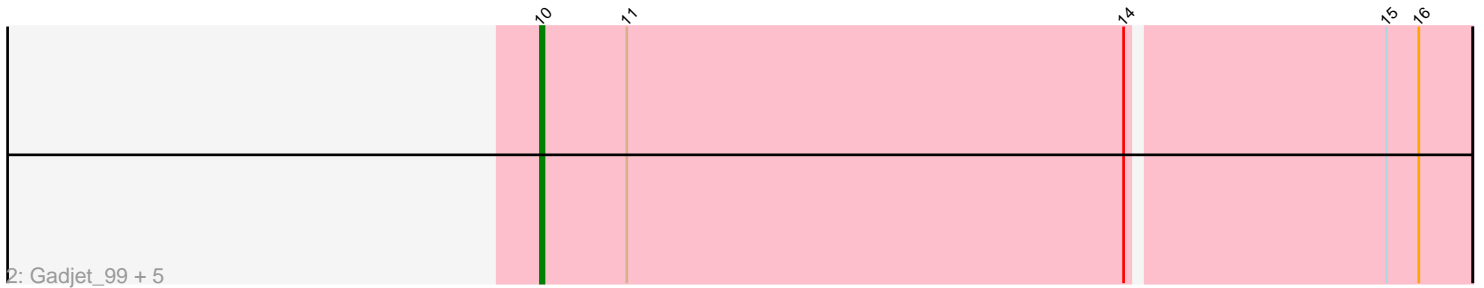
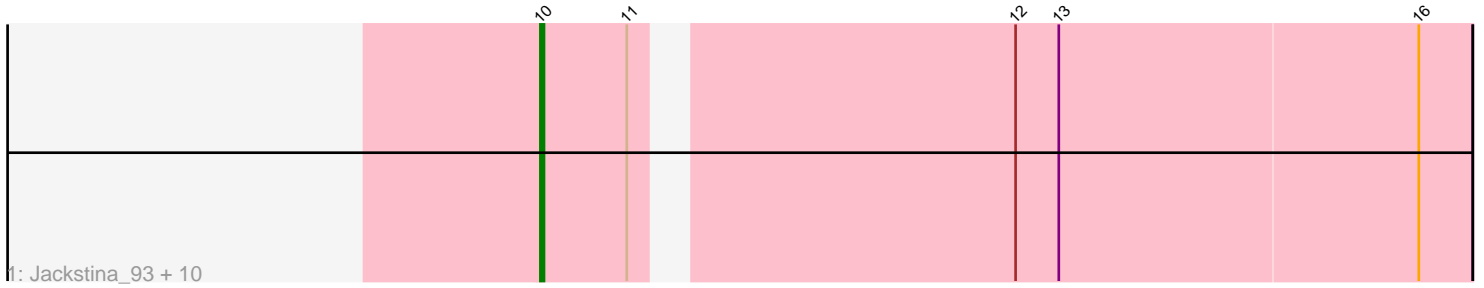


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 224680 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224680 has 45 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Jackstina\_93, Morty007\_98, Marlia\_100, Marley1013\_98, Chalmers\_100, Briakila\_101, Yahalom\_98, RomaT\_100, Kamiyu\_100, Gervas\_101, Philly\_99
- Track 2 : Gadget\_99, Daisy\_99, MmasiCarm\_101, Rita1961\_101, Bernardo\_97, Yinz\_98
- Track 3 : Devonte\_98, Tydolla\_96, Phaedrus\_95, Mortcellus\_100, Audrey\_100, Pipefish\_99, Chandler\_100, Compostia\_99, GlenHope\_101, LestyG\_98
- Track 4 : Athena\_102
- Track 5 : Heathcliff\_100, Neos5\_99, Phlyer\_100, Shenandoah\_100, Halfpint\_99, RagingRooster\_100, ChaChing\_100, Nozo\_100, Deenasa\_101, Abinghost\_100, OrangeOswald\_99, Baloo\_99, SynergyX\_101, SlippinJimmy\_103, Corofin\_100, Akoma\_101, HarveySr\_97

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

The start number called the most often in the published annotations is 10, it was called in 41 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost\_100, Akoma\_101, Athena\_102, Audrey\_100, Baloo\_99, Bernardo\_97, Briakila\_101, ChaChing\_100, Chalmers\_100, Chandler\_100, Compostia\_99, Corofin\_100, Daisy\_99, Deenasa\_101, Devonte\_98, Gadget\_99, Gervas\_101, GlenHope\_101, Halfpint\_99, HarveySr\_97, Heathcliff\_100, Jackstina\_93, Kamiyu\_100, LestyG\_98, Marley1013\_98, Marlia\_100, MmasiCarm\_101, Mortcellus\_100, Morty007\_98, Neos5\_99, Nozo\_100, OrangeOswald\_99, Phaedrus\_95, Philly\_99, Phlyer\_100, Pipefish\_99, RagingRooster\_100, Rita1961\_101, RomaT\_100, Shenandoah\_100, SlippinJimmy\_103, SynergyX\_101, Tydolla\_96, Yahalom\_98, Yinz\_98,

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

- 

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

-

## Summary by start number:

Start 10:

- Found in 45 of 45 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 41 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abinghost\_100 (B3), Akoma\_101 (B3), Athena\_102 (B3), Audrey\_100 (B3), Baloo\_99 (B3), Bernardo\_97 (B3), Briakila\_101 (B3), ChaChing\_100 (B3), Chalmers\_100 (B3), Chandler\_100 (B3), Compostia\_99 (B3), Corofin\_100 (B3), Daisy\_99 (B3), Deenasa\_101 (B3), Devonte\_98 (B3), Gadget\_99 (B3), Gervas\_101 (B3), GlenHope\_101 (B3), Halfpint\_99 (B3), HarveySr\_97 (B3), Heathcliff\_100 (B3), Jackstina\_93 (B3), Kamiyu\_100 (B3), LestyG\_98 (B3), Marley1013\_98 (B3), Marlia\_100 (B3), MmasiCarm\_101 (B3), Mortcellus\_100 (B3), Morty007\_98 (B3), Neos5\_99 (B3), Nozo\_100 (B3), OrangeOswald\_99 (B3), Phaedruss\_95 (B3), Philly\_99 (B3), Phlyer\_100 (B3), Pipefish\_99 (B3), RagingRooster\_100 (B3), Rita1961\_101 (B3), RomaT\_100 (B3), Shenandoah\_100 (B3), SlippinJimmy\_103 (B3), SynergyX\_101 (B3), Tydolla\_96 (B3), Yahalom\_98 (B3), Yinz\_98 (B3),

## Summary by clusters:

There is one cluster represented in this pham: B3

Info for manual annotations of cluster B3:

- Start number 10 was manually annotated 41 times for cluster B3.

## Gene Information:

Gene: Abinghost\_100 Start: 67594, Stop: 67839, Start Num: 10

Candidate Starts for Abinghost\_100:

(4, 67507), (6, 67531), (8, 67540), (9, 67546), (Start: 10 @67594 has 41 MA's), (11, 67618), (12, 67714), (13, 67726), (16, 67825),

Gene: Akoma\_101 Start: 67671, Stop: 67916, Start Num: 10

Candidate Starts for Akoma\_101:

(4, 67584), (6, 67608), (8, 67617), (9, 67623), (Start: 10 @67671 has 41 MA's), (11, 67695), (12, 67791), (13, 67803), (16, 67902),

Gene: Athena\_102 Start: 68369, Stop: 68614, Start Num: 10

Candidate Starts for Athena\_102:

(Start: 10 @68369 has 41 MA's), (11, 68393), (12, 68489), (13, 68501), (16, 68600),

Gene: Audrey\_100 Start: 67622, Stop: 67867, Start Num: 10

Candidate Starts for Audrey\_100:

(1, 67493), (2, 67496), (3, 67520), (5, 67556), (7, 67562), (Start: 10 @67622 has 41 MA's), (11, 67646), (12, 67742), (13, 67754), (16, 67853),

Gene: Baloo\_99 Start: 67474, Stop: 67719, Start Num: 10

Candidate Starts for Baloo\_99:

(4, 67387), (6, 67411), (8, 67420), (9, 67426), (Start: 10 @67474 has 41 MA's), (11, 67498), (12, 67594), (13, 67606), (16, 67705),

Gene: Bernardo\_97 Start: 67147, Stop: 67401, Start Num: 10  
Candidate Starts for Bernardo\_97:  
(Start: 10 @67147 has 41 MA's), (11, 67171), (14, 67309), (15, 67378), (16, 67387),

Gene: Briakila\_101 Start: 68126, Stop: 68371, Start Num: 10  
Candidate Starts for Briakila\_101:  
(Start: 10 @68126 has 41 MA's), (11, 68150), (12, 68246), (13, 68258), (16, 68357),

Gene: ChaChing\_100 Start: 67628, Stop: 67873, Start Num: 10  
Candidate Starts for ChaChing\_100:  
(4, 67541), (6, 67565), (8, 67574), (9, 67580), (Start: 10 @67628 has 41 MA's), (11, 67652), (12, 67748), (13, 67760), (16, 67859),

Gene: Chalmers\_100 Start: 68367, Stop: 68612, Start Num: 10  
Candidate Starts for Chalmers\_100:  
(Start: 10 @68367 has 41 MA's), (11, 68391), (12, 68487), (13, 68499), (16, 68598),

Gene: Chandler\_100 Start: 68411, Stop: 68656, Start Num: 10  
Candidate Starts for Chandler\_100:  
(1, 68282), (2, 68285), (3, 68309), (5, 68345), (7, 68351), (Start: 10 @68411 has 41 MA's), (11, 68435), (12, 68531), (13, 68543), (16, 68642),

Gene: Compostia\_99 Start: 68089, Stop: 68334, Start Num: 10  
Candidate Starts for Compostia\_99:  
(1, 67960), (2, 67963), (3, 67987), (5, 68023), (7, 68029), (Start: 10 @68089 has 41 MA's), (11, 68113), (12, 68209), (13, 68221), (16, 68320),

Gene: Corofin\_100 Start: 67645, Stop: 67890, Start Num: 10  
Candidate Starts for Corofin\_100:  
(4, 67558), (6, 67582), (8, 67591), (9, 67597), (Start: 10 @67645 has 41 MA's), (11, 67669), (12, 67765), (13, 67777), (16, 67876),

Gene: Daisy\_99 Start: 67196, Stop: 67450, Start Num: 10  
Candidate Starts for Daisy\_99:  
(Start: 10 @67196 has 41 MA's), (11, 67220), (14, 67358), (15, 67427), (16, 67436),

Gene: Deenasa\_101 Start: 68848, Stop: 69093, Start Num: 10  
Candidate Starts for Deenasa\_101:  
(4, 68761), (6, 68785), (8, 68794), (9, 68800), (Start: 10 @68848 has 41 MA's), (11, 68872), (12, 68968), (13, 68980), (16, 69079),

Gene: Devonte\_98 Start: 67261, Stop: 67506, Start Num: 10  
Candidate Starts for Devonte\_98:  
(1, 67132), (2, 67135), (3, 67159), (5, 67195), (7, 67201), (Start: 10 @67261 has 41 MA's), (11, 67285), (12, 67381), (13, 67393), (16, 67492),

Gene: Gadjet\_99 Start: 66900, Stop: 67154, Start Num: 10  
Candidate Starts for Gadjet\_99:  
(Start: 10 @66900 has 41 MA's), (11, 66924), (14, 67062), (15, 67131), (16, 67140),

Gene: Gervas\_101 Start: 68090, Stop: 68335, Start Num: 10  
Candidate Starts for Gervas\_101:

(Start: 10 @68090 has 41 MA's), (11, 68114), (12, 68210), (13, 68222), (16, 68321),

Gene: GlenHope\_101 Start: 67665, Stop: 67910, Start Num: 10

Candidate Starts for GlenHope\_101:

(1, 67536), (2, 67539), (3, 67563), (5, 67599), (7, 67605), (Start: 10 @67665 has 41 MA's), (11, 67689), (12, 67785), (13, 67797), (16, 67896),

Gene: Halfpint\_99 Start: 67409, Stop: 67654, Start Num: 10

Candidate Starts for Halfpint\_99:

(4, 67322), (6, 67346), (8, 67355), (9, 67361), (Start: 10 @67409 has 41 MA's), (11, 67433), (12, 67529), (13, 67541), (16, 67640),

Gene: HarveySr\_97 Start: 66733, Stop: 66978, Start Num: 10

Candidate Starts for HarveySr\_97:

(4, 66646), (6, 66670), (8, 66679), (9, 66685), (Start: 10 @66733 has 41 MA's), (11, 66757), (12, 66853), (13, 66865), (16, 66964),

Gene: Heathcliff\_100 Start: 67588, Stop: 67833, Start Num: 10

Candidate Starts for Heathcliff\_100:

(4, 67501), (6, 67525), (8, 67534), (9, 67540), (Start: 10 @67588 has 41 MA's), (11, 67612), (12, 67708), (13, 67720), (16, 67819),

Gene: Jackstina\_93 Start: 67506, Stop: 67751, Start Num: 10

Candidate Starts for Jackstina\_93:

(Start: 10 @67506 has 41 MA's), (11, 67530), (12, 67626), (13, 67638), (16, 67737),

Gene: Kamiyu\_100 Start: 67593, Stop: 67838, Start Num: 10

Candidate Starts for Kamiyu\_100:

(Start: 10 @67593 has 41 MA's), (11, 67617), (12, 67713), (13, 67725), (16, 67824),

Gene: LestyG\_98 Start: 67158, Stop: 67403, Start Num: 10

Candidate Starts for LestyG\_98:

(1, 67029), (2, 67032), (3, 67056), (5, 67092), (7, 67098), (Start: 10 @67158 has 41 MA's), (11, 67182), (12, 67278), (13, 67290), (16, 67389),

Gene: Marley1013\_98 Start: 68124, Stop: 68369, Start Num: 10

Candidate Starts for Marley1013\_98:

(Start: 10 @68124 has 41 MA's), (11, 68148), (12, 68244), (13, 68256), (16, 68355),

Gene: Marlia\_100 Start: 67686, Stop: 67931, Start Num: 10

Candidate Starts for Marlia\_100:

(Start: 10 @67686 has 41 MA's), (11, 67710), (12, 67806), (13, 67818), (16, 67917),

Gene: MmasiCarm\_101 Start: 68022, Stop: 68276, Start Num: 10

Candidate Starts for MmasiCarm\_101:

(Start: 10 @68022 has 41 MA's), (11, 68046), (14, 68184), (15, 68253), (16, 68262),

Gene: Mortcellus\_100 Start: 68760, Stop: 69005, Start Num: 10

Candidate Starts for Mortcellus\_100:

(1, 68631), (2, 68634), (3, 68658), (5, 68694), (7, 68700), (Start: 10 @68760 has 41 MA's), (11, 68784), (12, 68880), (13, 68892), (16, 68991),

Gene: Morty007\_98 Start: 68391, Stop: 68636, Start Num: 10

Candidate Starts for Morty007\_98:

(Start: 10 @68391 has 41 MA's), (11, 68415), (12, 68511), (13, 68523), (16, 68622),

Gene: Neos5\_99 Start: 67846, Stop: 68091, Start Num: 10

Candidate Starts for Neos5\_99:

(4, 67759), (6, 67783), (8, 67792), (9, 67798), (Start: 10 @67846 has 41 MA's), (11, 67870), (12, 67966), (13, 67978), (16, 68077),

Gene: Nozo\_100 Start: 68399, Stop: 68644, Start Num: 10

Candidate Starts for Nozo\_100:

(4, 68312), (6, 68336), (8, 68345), (9, 68351), (Start: 10 @68399 has 41 MA's), (11, 68423), (12, 68519), (13, 68531), (16, 68630),

Gene: OrangeOswald\_99 Start: 67634, Stop: 67879, Start Num: 10

Candidate Starts for OrangeOswald\_99:

(4, 67547), (6, 67571), (8, 67580), (9, 67586), (Start: 10 @67634 has 41 MA's), (11, 67658), (12, 67754), (13, 67766), (16, 67865),

Gene: Phaedrus\_95 Start: 67050, Stop: 67295, Start Num: 10

Candidate Starts for Phaedrus\_95:

(1, 66921), (2, 66924), (3, 66948), (5, 66984), (7, 66990), (Start: 10 @67050 has 41 MA's), (11, 67074), (12, 67170), (13, 67182), (16, 67281),

Gene: Philly\_99 Start: 67483, Stop: 67728, Start Num: 10

Candidate Starts for Philly\_99:

(Start: 10 @67483 has 41 MA's), (11, 67507), (12, 67603), (13, 67615), (16, 67714),

Gene: Phlyer\_100 Start: 68338, Stop: 68583, Start Num: 10

Candidate Starts for Phlyer\_100:

(4, 68251), (6, 68275), (8, 68284), (9, 68290), (Start: 10 @68338 has 41 MA's), (11, 68362), (12, 68458), (13, 68470), (16, 68569),

Gene: Pipefish\_99 Start: 68019, Stop: 68264, Start Num: 10

Candidate Starts for Pipefish\_99:

(1, 67890), (2, 67893), (3, 67917), (5, 67953), (7, 67959), (Start: 10 @68019 has 41 MA's), (11, 68043), (12, 68139), (13, 68151), (16, 68250),

Gene: RagingRooster\_100 Start: 67630, Stop: 67875, Start Num: 10

Candidate Starts for RagingRooster\_100:

(4, 67543), (6, 67567), (8, 67576), (9, 67582), (Start: 10 @67630 has 41 MA's), (11, 67654), (12, 67750), (13, 67762), (16, 67861),

Gene: Rita1961\_101 Start: 67977, Stop: 68231, Start Num: 10

Candidate Starts for Rita1961\_101:

(Start: 10 @67977 has 41 MA's), (11, 68001), (14, 68139), (15, 68208), (16, 68217),

Gene: RomaT\_100 Start: 68199, Stop: 68444, Start Num: 10

Candidate Starts for RomaT\_100:

(Start: 10 @68199 has 41 MA's), (11, 68223), (12, 68319), (13, 68331), (16, 68430),

Gene: Shenandoah\_100 Start: 67550, Stop: 67795, Start Num: 10

Candidate Starts for Shenandoah\_100:

(4, 67463), (6, 67487), (8, 67496), (9, 67502), (Start: 10 @67550 has 41 MA's), (11, 67574), (12, 67670), (13, 67682), (16, 67781),

Gene: SlippinJimmy\_103 Start: 68998, Stop: 69243, Start Num: 10

Candidate Starts for SlippinJimmy\_103:

(4, 68911), (6, 68935), (8, 68944), (9, 68950), (Start: 10 @68998 has 41 MA's), (11, 69022), (12, 69118), (13, 69130), (16, 69229),

Gene: SynergyX\_101 Start: 67940, Stop: 68185, Start Num: 10

Candidate Starts for SynergyX\_101:

(4, 67853), (6, 67877), (8, 67886), (9, 67892), (Start: 10 @67940 has 41 MA's), (11, 67964), (12, 68060), (13, 68072), (16, 68171),

Gene: Tydolla\_96 Start: 67617, Stop: 67862, Start Num: 10

Candidate Starts for Tydolla\_96:

(1, 67488), (2, 67491), (3, 67515), (5, 67551), (7, 67557), (Start: 10 @67617 has 41 MA's), (11, 67641), (12, 67737), (13, 67749), (16, 67848),

Gene: Yahalom\_98 Start: 67442, Stop: 67687, Start Num: 10

Candidate Starts for Yahalom\_98:

(Start: 10 @67442 has 41 MA's), (11, 67466), (12, 67562), (13, 67574), (16, 67673),

Gene: Yinz\_98 Start: 67044, Stop: 67298, Start Num: 10

Candidate Starts for Yinz\_98:

(Start: 10 @67044 has 41 MA's), (11, 67068), (14, 67206), (15, 67275), (16, 67284),