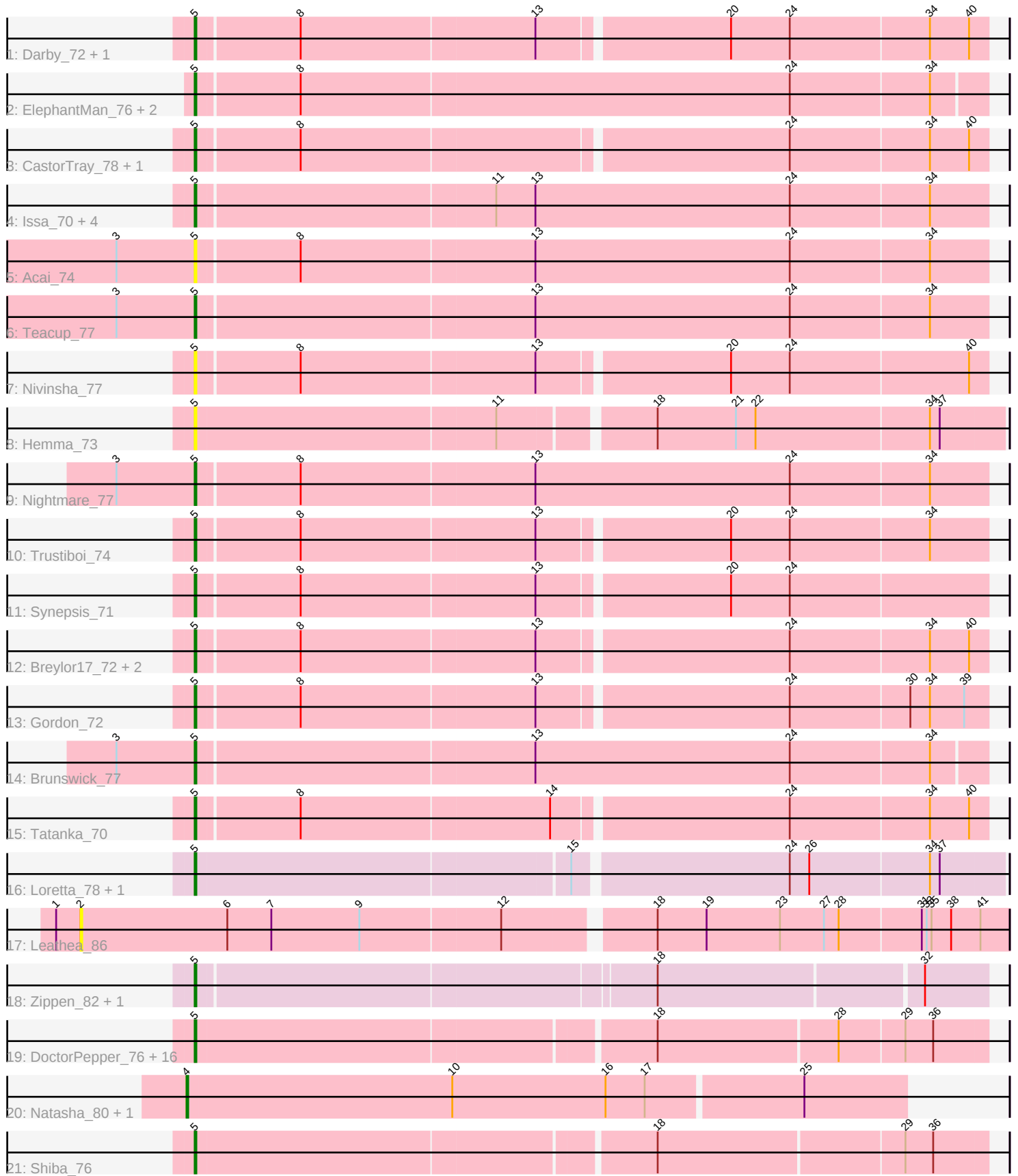


# Pham 278298



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 278298 Report

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

Pham number 278298 has 50 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Darby\_72, AreFloNak\_80
- Track 2 : ElephantMan\_76, LucySwiss\_76, Niktson\_76
- Track 3 : CastorTray\_78, ScienceWizSam\_77
- Track 4 : Issa\_70, Dinallo\_70, CapnMurica\_72, MiniBagel\_76, Tenno\_75
- Track 5 : Acai\_74
- Track 6 : Teacup\_77
- Track 7 : Nivinsha\_77
- Track 8 : Hemma\_73
- Track 9 : Nightmare\_77
- Track 10 : Trustiboi\_74
- Track 11 : Synopsis\_71
- Track 12 : Breylor17\_72, Westerlin\_73, DevitoJr\_75
- Track 13 : Gordon\_72
- Track 14 : Brunswick\_77
- Track 15 : Tatanka\_70
- Track 16 : Loretta\_78, Ingrid\_82
- Track 17 : Leathea\_86
- Track 18 : Zippen\_82, Inked\_82
- Track 19 : DoctorPepper\_76, MrAaronian\_77, HerbBucket\_76, Linda\_77, Djungelskog\_76, Salk\_77, Spain\_77, Egad\_77, Stayer\_77, Raunak\_78, Sloopyjoe\_77, Boog\_76, BronxBay\_77, StarLord\_77, Jeremy4pt0\_74, Michelle\_77, ProfFrink\_77
- Track 20 : Natasha\_80, RustyBoy\_81
- Track 21 : Shiba\_76

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

The start number called the most often in the published annotations is 5, it was called in 37 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acai\_74, AreFloNak\_80, Boog\_76, Breylor17\_72, BronxBay\_77, Brunswick\_77, CapnMurica\_72, CastorTray\_78, Darby\_72, DevitoJr\_75, Dinallo\_70, Djungelskog\_76, DoctorPepper\_76, Egad\_77, ElephantMan\_76, Gordon\_72,

Hemma\_73, HerbBucket\_76, Ingrid\_82, Inked\_82, Issa\_70, Jeremy4pt0\_74, Linda\_77, Loretta\_78, LucySwiss\_76, Michelle\_77, MiniBagel\_76, MrAaronian\_77, Nightmare\_77, Niktson\_76, Nivinsha\_77, ProfFrink\_77, Raunak\_78, Salk\_77, ScienceWizSam\_77, Shiba\_76, Sloopyjoe\_77, Spain\_77, StarLord\_77, Stayer\_77, Synepsis\_71, Tatanka\_70, Teacup\_77, Tenno\_75, Trustiboi\_74, Westerlin\_73, Zippen\_82,

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

- 

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

- Leathea\_86, Natasha\_80, RustyBoy\_81,

### Summary by start number:

Start 2:

- Found in 1 of 50 ( 2.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Leathea\_86 (AU6),

Start 4:

- Found in 2 of 50 ( 4.0% ) of genes in pham
- Manual Annotations of this start: 2 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Natasha\_80 (AW), RustyBoy\_81 (AW),

Start 5:

- Found in 47 of 50 ( 94.0% ) of genes in pham
- Manual Annotations of this start: 37 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acai\_74 (AU1), AreFloNak\_80 (AU1), Boog\_76 (AW), Breylor17\_72 (AU1), BronxBay\_77 (AW), Brunswick\_77 (AU1), CapnMurica\_72 (AU1), CastorTray\_78 (AU1), Darby\_72 (AU1), DeVitoJr\_75 (AU1), Dinallo\_70 (AU1), Djungelskog\_76 (AW), DoctorPepper\_76 (AW), Egad\_77 (AW), ElephantMan\_76 (AU1), Gordon\_72 (AU1), Hemma\_73 (AU1), HerbBucket\_76 (AW), Ingrid\_82 (AU3), Inked\_82 (AU7), Issa\_70 (AU1), Jeremy4pt0\_74 (AW), Linda\_77 (AW), Loretta\_78 (AU3), LucySwiss\_76 (AU1), Michelle\_77 (AW), MiniBagel\_76 (AU1), MrAaronian\_77 (AW), Nightmare\_77 (AU1), Niktson\_76 (AU1), Nivinsha\_77 (AU1), ProfFrink\_77 (AW), Raunak\_78 (AW), Salk\_77 (AW), ScienceWizSam\_77 (AU1), Shiba\_76 (AW), Sloopyjoe\_77 (AW), Spain\_77 (AW), StarLord\_77 (AW), Stayer\_77 (AW), Synepsis\_71 (AU1), Tatanka\_70 (AU1), Teacup\_77 (AU1), Tenno\_75 (AU1), Trustiboi\_74 (AU1), Westerlin\_73 (AU1), Zippen\_82 (AU7),

### Summary by clusters:

There are 5 clusters represented in this pham: AU1, AU3, AU7, AW, AU6,

Info for manual annotations of cluster AU1:

- Start number 5 was manually annotated 19 times for cluster AU1.

Info for manual annotations of cluster AU3:

- Start number 5 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU7:

- Start number 5 was manually annotated 2 times for cluster AU7.

Info for manual annotations of cluster AW:

- Start number 4 was manually annotated 2 times for cluster AW.
- Start number 5 was manually annotated 14 times for cluster AW.

### **Gene Information:**

Gene: Acai\_74 Start: 50191, Stop: 50667, Start Num: 5

Candidate Starts for Acai\_74:

(3, 50143), (Start: 5 @50191 has 37 MA's), (8, 50251), (13, 50392), (24, 50548), (34, 50632),

Gene: AreFloNak\_80 Start: 50058, Stop: 50525, Start Num: 5

Candidate Starts for AreFloNak\_80:

(Start: 5 @50058 has 37 MA's), (8, 50118), (13, 50259), (20, 50370), (24, 50406), (34, 50490), (40, 50514),

Gene: Boog\_76 Start: 47985, Stop: 48449, Start Num: 5

Candidate Starts for Boog\_76:

(Start: 5 @47985 has 37 MA's), (18, 48255), (28, 48363), (29, 48402), (36, 48417),

Gene: Breylor17\_72 Start: 50448, Stop: 50915, Start Num: 5

Candidate Starts for Breylor17\_72:

(Start: 5 @50448 has 37 MA's), (8, 50508), (13, 50649), (24, 50796), (34, 50880), (40, 50904),

Gene: BronxBay\_77 Start: 48274, Stop: 48738, Start Num: 5

Candidate Starts for BronxBay\_77:

(Start: 5 @48274 has 37 MA's), (18, 48544), (28, 48652), (29, 48691), (36, 48706),

Gene: Brunswick\_77 Start: 50186, Stop: 50659, Start Num: 5

Candidate Starts for Brunswick\_77:

(3, 50138), (Start: 5 @50186 has 37 MA's), (13, 50387), (24, 50543), (34, 50627),

Gene: CapnMurica\_72 Start: 50515, Stop: 50991, Start Num: 5

Candidate Starts for CapnMurica\_72:

(Start: 5 @50515 has 37 MA's), (11, 50692), (13, 50716), (24, 50872), (34, 50956),

Gene: CastorTray\_78 Start: 50576, Stop: 51043, Start Num: 5

Candidate Starts for CastorTray\_78:

(Start: 5 @50576 has 37 MA's), (8, 50636), (24, 50924), (34, 51008), (40, 51032),

Gene: Darby\_72 Start: 49622, Stop: 50089, Start Num: 5

Candidate Starts for Darby\_72:

(Start: 5 @49622 has 37 MA's), (8, 49682), (13, 49823), (20, 49934), (24, 49970), (34, 50054), (40, 50078),

Gene: DevitoJr\_75 Start: 50004, Stop: 50471, Start Num: 5

Candidate Starts for DevitoJr\_75:

(Start: 5 @50004 has 37 MA's), (8, 50064), (13, 50205), (24, 50352), (34, 50436), (40, 50460),

Gene: Dinallo\_70 Start: 50761, Stop: 51237, Start Num: 5

Candidate Starts for Dinallo\_70:

(Start: 5 @50761 has 37 MA's), (11, 50938), (13, 50962), (24, 51118), (34, 51202),

Gene: Djungelskog\_76 Start: 48276, Stop: 48740, Start Num: 5

Candidate Starts for Djungelskog\_76:

(Start: 5 @48276 has 37 MA's), (18, 48546), (28, 48654), (29, 48693), (36, 48708),

Gene: DoctorPepper\_76 Start: 47969, Stop: 48433, Start Num: 5

Candidate Starts for DoctorPepper\_76:

(Start: 5 @47969 has 37 MA's), (18, 48239), (28, 48347), (29, 48386), (36, 48401),

Gene: Egad\_77 Start: 48243, Stop: 48707, Start Num: 5

Candidate Starts for Egad\_77:

(Start: 5 @48243 has 37 MA's), (18, 48513), (28, 48621), (29, 48660), (36, 48675),

Gene: ElephantMan\_76 Start: 50779, Stop: 51252, Start Num: 5

Candidate Starts for ElephantMan\_76:

(Start: 5 @50779 has 37 MA's), (8, 50839), (24, 51136), (34, 51220),

Gene: Gordon\_72 Start: 50418, Stop: 50885, Start Num: 5

Candidate Starts for Gordon\_72:

(Start: 5 @50418 has 37 MA's), (8, 50478), (13, 50619), (24, 50766), (30, 50838), (34, 50850), (39, 50871),

Gene: Hemma\_73 Start: 47826, Stop: 48302, Start Num: 5

Candidate Starts for Hemma\_73:

(Start: 5 @47826 has 37 MA's), (11, 48006), (18, 48093), (21, 48141), (22, 48153), (34, 48258), (37, 48264),

Gene: HerbBucket\_76 Start: 47969, Stop: 48433, Start Num: 5

Candidate Starts for HerbBucket\_76:

(Start: 5 @47969 has 37 MA's), (18, 48239), (28, 48347), (29, 48386), (36, 48401),

Gene: Ingrid\_82 Start: 50381, Stop: 50857, Start Num: 5

Candidate Starts for Ingrid\_82:

(Start: 5 @50381 has 37 MA's), (15, 50603), (24, 50729), (26, 50741), (34, 50813), (37, 50819),

Gene: Inked\_82 Start: 51097, Stop: 51561, Start Num: 5

Candidate Starts for Inked\_82:

(Start: 5 @51097 has 37 MA's), (18, 51367), (32, 51523),

Gene: Issa\_70 Start: 49586, Stop: 50062, Start Num: 5

Candidate Starts for Issa\_70:

(Start: 5 @49586 has 37 MA's), (11, 49763), (13, 49787), (24, 49943), (34, 50027),

Gene: Jeremy4pt0\_74 Start: 47961, Stop: 48425, Start Num: 5

Candidate Starts for Jeremy4pt0\_74:

(Start: 5 @47961 has 37 MA's), (18, 48231), (28, 48339), (29, 48378), (36, 48393),

Gene: Leathea\_86 Start: 48939, Stop: 49490, Start Num: 2

Candidate Starts for Leathea\_86:

(1, 48924), (2, 48939), (6, 49029), (7, 49056), (9, 49110), (12, 49194), (18, 49278), (19, 49308), (23, 49353), (27, 49380), (28, 49389), (31, 49437), (33, 49440), (35, 49443), (38, 49455), (41, 49473),

Gene: Linda\_77 Start: 48256, Stop: 48720, Start Num: 5

Candidate Starts for Linda\_77:

(Start: 5 @48256 has 37 MA's), (18, 48526), (28, 48634), (29, 48673), (36, 48688),

Gene: Loretta\_78 Start: 50381, Stop: 50857, Start Num: 5

Candidate Starts for Loretta\_78:

(Start: 5 @50381 has 37 MA's), (15, 50603), (24, 50729), (26, 50741), (34, 50813), (37, 50819),

Gene: LucySwiss\_76 Start: 49844, Stop: 50320, Start Num: 5

Candidate Starts for LucySwiss\_76:

(Start: 5 @49844 has 37 MA's), (8, 49904), (24, 50201), (34, 50285),

Gene: Michelle\_77 Start: 48273, Stop: 48737, Start Num: 5

Candidate Starts for Michelle\_77:

(Start: 5 @48273 has 37 MA's), (18, 48543), (28, 48651), (29, 48690), (36, 48705),

Gene: MiniBagel\_76 Start: 50519, Stop: 50995, Start Num: 5

Candidate Starts for MiniBagel\_76:

(Start: 5 @50519 has 37 MA's), (11, 50696), (13, 50720), (24, 50876), (34, 50960),

Gene: MrAaronian\_77 Start: 48273, Stop: 48737, Start Num: 5

Candidate Starts for MrAaronian\_77:

(Start: 5 @48273 has 37 MA's), (18, 48543), (28, 48651), (29, 48690), (36, 48705),

Gene: Natasha\_80 Start: 48586, Stop: 49020, Start Num: 4

Candidate Starts for Natasha\_80:

(Start: 4 @48586 has 2 MA's), (10, 48748), (16, 48841), (17, 48865), (25, 48958),

Gene: Nightmare\_77 Start: 50946, Stop: 51422, Start Num: 5

Candidate Starts for Nightmare\_77:

(3, 50898), (Start: 5 @50946 has 37 MA's), (8, 51006), (13, 51147), (24, 51303), (34, 51387),

Gene: Niktson\_76 Start: 50779, Stop: 51252, Start Num: 5

Candidate Starts for Niktson\_76:

(Start: 5 @50779 has 37 MA's), (8, 50839), (24, 51136), (34, 51220),

Gene: Nivinsha\_77 Start: 50059, Stop: 50526, Start Num: 5

Candidate Starts for Nivinsha\_77:

(Start: 5 @50059 has 37 MA's), (8, 50119), (13, 50260), (20, 50371), (24, 50407), (40, 50515),

Gene: ProfFrink\_77 Start: 48242, Stop: 48706, Start Num: 5

Candidate Starts for ProfFrink\_77:

(Start: 5 @48242 has 37 MA's), (18, 48512), (28, 48620), (29, 48659), (36, 48674),

Gene: Raunak\_78 Start: 47952, Stop: 48416, Start Num: 5

Candidate Starts for Raunak\_78:

(Start: 5 @47952 has 37 MA's), (18, 48222), (28, 48330), (29, 48369), (36, 48384),

Gene: RustyBoy\_81 Start: 48785, Stop: 49219, Start Num: 4

Candidate Starts for RustyBoy\_81:

(Start: 4 @48785 has 2 MA's), (10, 48947), (16, 49040), (17, 49064), (25, 49157),

Gene: Salk\_77 Start: 48256, Stop: 48720, Start Num: 5

Candidate Starts for Salk\_77:

(Start: 5 @48256 has 37 MA's), (18, 48526), (28, 48634), (29, 48673), (36, 48688),

Gene: ScienceWizSam\_77 Start: 50177, Stop: 50644, Start Num: 5

Candidate Starts for ScienceWizSam\_77:

(Start: 5 @50177 has 37 MA's), (8, 50237), (24, 50525), (34, 50609), (40, 50633),

Gene: Shiba\_76 Start: 47968, Stop: 48432, Start Num: 5

Candidate Starts for Shiba\_76:

(Start: 5 @47968 has 37 MA's), (18, 48238), (29, 48385), (36, 48400),

Gene: Sloopyjoe\_77 Start: 48275, Stop: 48739, Start Num: 5

Candidate Starts for Sloopyjoe\_77:

(Start: 5 @48275 has 37 MA's), (18, 48545), (28, 48653), (29, 48692), (36, 48707),

Gene: Spain\_77 Start: 48273, Stop: 48737, Start Num: 5

Candidate Starts for Spain\_77:

(Start: 5 @48273 has 37 MA's), (18, 48543), (28, 48651), (29, 48690), (36, 48705),

Gene: StarLord\_77 Start: 48268, Stop: 48732, Start Num: 5

Candidate Starts for StarLord\_77:

(Start: 5 @48268 has 37 MA's), (18, 48538), (28, 48646), (29, 48685), (36, 48700),

Gene: Stayer\_77 Start: 48271, Stop: 48735, Start Num: 5

Candidate Starts for Stayer\_77:

(Start: 5 @48271 has 37 MA's), (18, 48541), (28, 48649), (29, 48688), (36, 48703),

Gene: Synopsis\_71 Start: 49985, Stop: 50452, Start Num: 5

Candidate Starts for Synopsis\_71:

(Start: 5 @49985 has 37 MA's), (8, 50045), (13, 50186), (20, 50297), (24, 50333),

Gene: Tatanka\_70 Start: 50163, Stop: 50630, Start Num: 5

Candidate Starts for Tatanka\_70:

(Start: 5 @50163 has 37 MA's), (8, 50223), (14, 50373), (24, 50511), (34, 50595), (40, 50619),

Gene: Teacup\_77 Start: 50837, Stop: 51313, Start Num: 5

Candidate Starts for Teacup\_77:

(3, 50789), (Start: 5 @50837 has 37 MA's), (13, 51038), (24, 51194), (34, 51278),

Gene: Tenno\_75 Start: 50552, Stop: 51028, Start Num: 5

Candidate Starts for Tenno\_75:

(Start: 5 @50552 has 37 MA's), (11, 50729), (13, 50753), (24, 50909), (34, 50993),

Gene: Trustiboi\_74 Start: 50266, Stop: 50733, Start Num: 5

Candidate Starts for Trustiboi\_74:

(Start: 5 @50266 has 37 MA's), (8, 50326), (13, 50467), (20, 50578), (24, 50614), (34, 50698),

Gene: Westerlin\_73 Start: 51185, Stop: 51652, Start Num: 5

Candidate Starts for Westerlin\_73:

(Start: 5 @51185 has 37 MA's), (8, 51245), (13, 51386), (24, 51533), (34, 51617), (40, 51641),

Gene: Zippen\_82 Start: 50971, Stop: 51435, Start Num: 5

Candidate Starts for Zippen\_82:

(Start: 5 @50971 has 37 MA's), (18, 51241), (32, 51397),