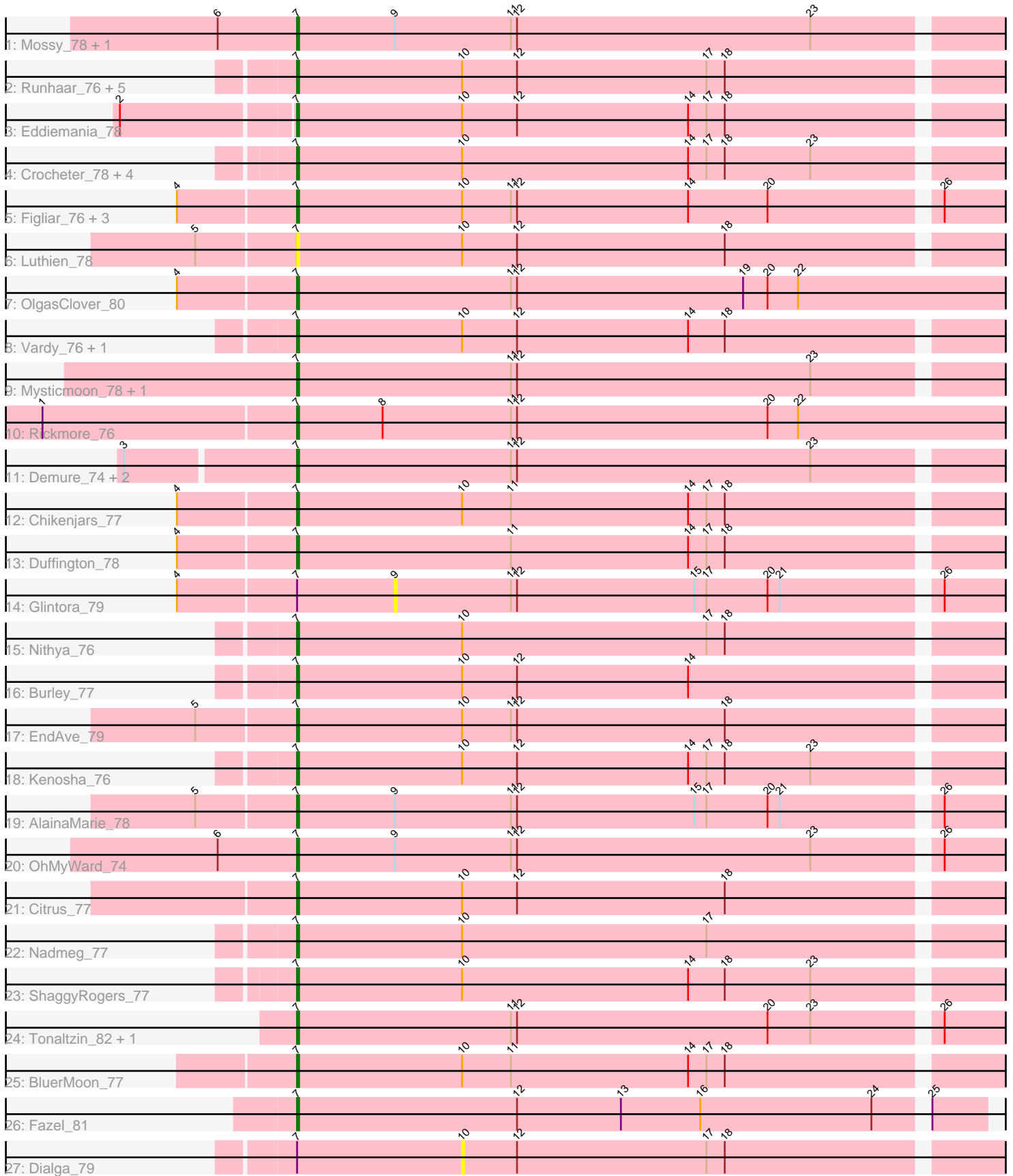


Pham 305117



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 305117 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305117 has 45 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Mossy\_78, Blanky\_75
- Track 2 : Runhaar\_76, Phepper\_78, ArtetaBall\_77, CWormy\_76, Untouchable\_79, Madvan\_77
- Track 3 : Eddiemania\_78
- Track 4 : Crocheter\_78, Aloe25\_81, BetterYeti\_77, Gusicorn\_79, PestoPenguin\_82
- Track 5 : Figliar\_76, TenaciousP\_78, Jodelie19\_76, MajinBuu\_78
- Track 6 : Luthien\_78
- Track 7 : OlgasClover\_80
- Track 8 : Vardy\_76, Zeph\_79
- Track 9 : Mysticmoon\_78, Pherobrine\_78
- Track 10 : Rickmore\_76
- Track 11 : Demure\_74, Hydrus\_77, Arataki\_76
- Track 12 : Chikenjars\_77
- Track 13 : Duffington\_78
- Track 14 : Glintora\_79
- Track 15 : Nithya\_76
- Track 16 : Burley\_77
- Track 17 : EndAve\_79
- Track 18 : Kenosha\_76
- Track 19 : AlainaMarie\_78
- Track 20 : OhMyWard\_74
- Track 21 : Citrus\_77
- Track 22 : Nadmeg\_77
- Track 23 : ShaggyRogers\_77
- Track 24 : Tonaltzin\_82, Aflac\_78
- Track 25 : BluerMoon\_77
- Track 26 : Fazel\_81
- Track 27 : Dialga\_79

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

The start number called the most often in the published annotations is 7, it was called in 35 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aflac\_78, AlainaMarie\_78, Aloe25\_81, Arataki\_76, ArtetaBall\_77, BetterYeti\_77, Blanky\_75, BluerMoon\_77, Burley\_77, CWormy\_76, Chikenjars\_77, Citrus\_77, Crocheter\_78, Demure\_74, Duffington\_78, Eddiemania\_78, EndAve\_79, Fazel\_81, Figliar\_76, Gusicorn\_79, Hydrus\_77, Jodelie19\_76, Kenosha\_76, Luthien\_78, Madvan\_77, MajinBuu\_78, Mossy\_78, Mysticmoon\_78, Nadmeg\_77, Nithya\_76, OhMyWard\_74, OlgasClover\_80, PestoPenguin\_82, Phepper\_78, Pherobrine\_78, Rickmore\_76, Runhaar\_76, ShaggyRogers\_77, TenaciousP\_78, Tonaltzin\_82, Untouchable\_79, Vardy\_76, Zeph\_79,

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

- Dialga\_79, Glintora\_79,

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

- 

### Summary by start number:

Start 7:

- Found in 45 of 45 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 35 of 35
- Called 95.6% of time when present
- Phage (with cluster) where this start called: Aflac\_78 (DJ), AlainaMarie\_78 (DJ), Aloe25\_81 (DJ), Arataki\_76 (DJ), ArtetaBall\_77 (DJ), BetterYeti\_77 (DJ), Blanky\_75 (DJ), BluerMoon\_77 (DJ), Burley\_77 (DJ), CWormy\_76 (DJ), Chikenjars\_77 (DJ), Citrus\_77 (DJ), Crocheter\_78 (DJ), Demure\_74 (DJ), Duffington\_78 (DJ), Eddiemania\_78 (DJ), EndAve\_79 (DJ), Fazel\_81 (DJ), Figliar\_76 (DJ), Gusicorn\_79 (DJ), Hydrus\_77 (DJ), Jodelie19\_76 (DJ), Kenosha\_76 (DJ), Luthien\_78 (DJ), Madvan\_77 (DJ), MajinBuu\_78 (DJ), Mossy\_78 (DJ), Mysticmoon\_78 (DJ), Nadmeg\_77 (DJ), Nithya\_76 (DJ), OhMyWard\_74 (DJ), OlgasClover\_80 (DJ), PestoPenguin\_82 (DJ), Phepper\_78 (DJ), Pherobrine\_78 (DJ), Rickmore\_76 (DJ), Runhaar\_76 (DJ), ShaggyRogers\_77 (DJ), TenaciousP\_78 (DJ), Tonaltzin\_82 (DJ), Untouchable\_79 (DJ), Vardy\_76 (DJ), Zeph\_79 (DJ),

Start 9:

- Found in 5 of 45 ( 11.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Glintora\_79 (DJ),

Start 10:

- Found in 29 of 45 ( 64.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 3.4% of time when present
- Phage (with cluster) where this start called: Dialga\_79 (DJ),

### Summary by clusters:

There is one cluster represented in this pham: DJ

Info for manual annotations of cluster DJ:

- Start number 7 was manually annotated 35 times for cluster DJ.

**Gene Information:**

Gene: Aflac\_78 Start: 51861, Stop: 52208, Start Num: 7

Candidate Starts for Aflac\_78:

(Start: 7 @51861 has 35 MA's), (11, 51966), (12, 51969), (20, 52092), (23, 52113), (26, 52170),

Gene: AlainaMarie\_78 Start: 51906, Stop: 52253, Start Num: 7

Candidate Starts for AlainaMarie\_78:

(5, 51858), (Start: 7 @51906 has 35 MA's), (9, 51954), (11, 52011), (12, 52014), (15, 52101), (17, 52107), (20, 52137), (21, 52143), (26, 52215),

Gene: Aloe25\_81 Start: 51286, Stop: 51633, Start Num: 7

Candidate Starts for Aloe25\_81:

(Start: 7 @51286 has 35 MA's), (10, 51367), (14, 51478), (17, 51487), (18, 51496), (23, 51538),

Gene: Arataki\_76 Start: 50900, Stop: 51247, Start Num: 7

Candidate Starts for Arataki\_76:

(3, 50819), (Start: 7 @50900 has 35 MA's), (11, 51005), (12, 51008), (23, 51152),

Gene: ArtetaBall\_77 Start: 51462, Stop: 51809, Start Num: 7

Candidate Starts for ArtetaBall\_77:

(Start: 7 @51462 has 35 MA's), (10, 51543), (12, 51570), (17, 51663), (18, 51672),

Gene: BetterYeti\_77 Start: 51285, Stop: 51632, Start Num: 7

Candidate Starts for BetterYeti\_77:

(Start: 7 @51285 has 35 MA's), (10, 51366), (14, 51477), (17, 51486), (18, 51495), (23, 51537),

Gene: Blanky\_75 Start: 52347, Stop: 52694, Start Num: 7

Candidate Starts for Blanky\_75:

(6, 52308), (Start: 7 @52347 has 35 MA's), (9, 52395), (11, 52452), (12, 52455), (23, 52599),

Gene: BluerMoon\_77 Start: 51813, Stop: 52160, Start Num: 7

Candidate Starts for BluerMoon\_77:

(Start: 7 @51813 has 35 MA's), (10, 51894), (11, 51918), (14, 52005), (17, 52014), (18, 52023),

Gene: Burley\_77 Start: 50918, Stop: 51265, Start Num: 7

Candidate Starts for Burley\_77:

(Start: 7 @50918 has 35 MA's), (10, 50999), (12, 51026), (14, 51110),

Gene: CWormy\_76 Start: 50879, Stop: 51226, Start Num: 7

Candidate Starts for CWormy\_76:

(Start: 7 @50879 has 35 MA's), (10, 50960), (12, 50987), (17, 51080), (18, 51089),

Gene: Chikenjars\_77 Start: 51872, Stop: 52219, Start Num: 7

Candidate Starts for Chikenjars\_77:

(4, 51815), (Start: 7 @51872 has 35 MA's), (10, 51953), (11, 51977), (14, 52064), (17, 52073), (18, 52082),

Gene: Citrus\_77 Start: 51922, Stop: 52269, Start Num: 7

Candidate Starts for Citrus\_77:

(Start: 7 @51922 has 35 MA's), (10, 52003), (12, 52030), (18, 52132),

Gene: Crocheter\_78 Start: 51379, Stop: 51726, Start Num: 7  
Candidate Starts for Crocheter\_78:  
(Start: 7 @51379 has 35 MA's), (10, 51460), (14, 51571), (17, 51580), (18, 51589), (23, 51631),

Gene: Demure\_74 Start: 50900, Stop: 51247, Start Num: 7  
Candidate Starts for Demure\_74:  
(3, 50819), (Start: 7 @50900 has 35 MA's), (11, 51005), (12, 51008), (23, 51152),

Gene: Dialga\_79 Start: 51562, Stop: 51828, Start Num: 10  
Candidate Starts for Dialga\_79:  
(Start: 7 @51481 has 35 MA's), (10, 51562), (12, 51589), (17, 51682), (18, 51691),

Gene: Duffington\_78 Start: 51842, Stop: 52189, Start Num: 7  
Candidate Starts for Duffington\_78:  
(4, 51785), (Start: 7 @51842 has 35 MA's), (11, 51947), (14, 52034), (17, 52043), (18, 52052),

Gene: Eddiemania\_78 Start: 51958, Stop: 52305, Start Num: 7  
Candidate Starts for Eddiemania\_78:  
(2, 51877), (Start: 7 @51958 has 35 MA's), (10, 52039), (12, 52066), (14, 52150), (17, 52159), (18, 52168),

Gene: EndAve\_79 Start: 51816, Stop: 52163, Start Num: 7  
Candidate Starts for EndAve\_79:  
(5, 51768), (Start: 7 @51816 has 35 MA's), (10, 51897), (11, 51921), (12, 51924), (18, 52026),

Gene: Fazel\_81 Start: 51842, Stop: 52171, Start Num: 7  
Candidate Starts for Fazel\_81:  
(Start: 7 @51842 has 35 MA's), (12, 51950), (13, 52001), (16, 52040), (24, 52124), (25, 52145),

Gene: Figliar\_76 Start: 51641, Stop: 51988, Start Num: 7  
Candidate Starts for Figliar\_76:  
(4, 51584), (Start: 7 @51641 has 35 MA's), (10, 51722), (11, 51746), (12, 51749), (14, 51833), (20, 51872), (26, 51950),

Gene: Glintora\_79 Start: 52065, Stop: 52364, Start Num: 9  
Candidate Starts for Glintora\_79:  
(4, 51960), (Start: 7 @52017 has 35 MA's), (9, 52065), (11, 52122), (12, 52125), (15, 52212), (17, 52218), (20, 52248), (21, 52254), (26, 52326),

Gene: Gusicorn\_79 Start: 51286, Stop: 51633, Start Num: 7  
Candidate Starts for Gusicorn\_79:  
(Start: 7 @51286 has 35 MA's), (10, 51367), (14, 51478), (17, 51487), (18, 51496), (23, 51538),

Gene: Hydrus\_77 Start: 51677, Stop: 52024, Start Num: 7  
Candidate Starts for Hydrus\_77:  
(3, 51596), (Start: 7 @51677 has 35 MA's), (11, 51782), (12, 51785), (23, 51929),

Gene: Jodelie19\_76 Start: 52808, Stop: 53155, Start Num: 7  
Candidate Starts for Jodelie19\_76:  
(4, 52751), (Start: 7 @52808 has 35 MA's), (10, 52889), (11, 52913), (12, 52916), (14, 53000), (20, 53039), (26, 53117),

Gene: Kenosha\_76 Start: 51507, Stop: 51854, Start Num: 7  
Candidate Starts for Kenosha\_76:  
(Start: 7 @51507 has 35 MA's), (10, 51588), (12, 51615), (14, 51699), (17, 51708), (18, 51717), (23, 51759),

Gene: Luthien\_78 Start: 51811, Stop: 52158, Start Num: 7  
Candidate Starts for Luthien\_78:  
(5, 51763), (Start: 7 @51811 has 35 MA's), (10, 51892), (12, 51919), (18, 52021),

Gene: Madvan\_77 Start: 50974, Stop: 51321, Start Num: 7  
Candidate Starts for Madvan\_77:  
(Start: 7 @50974 has 35 MA's), (10, 51055), (12, 51082), (17, 51175), (18, 51184),

Gene: MajinBuu\_78 Start: 52023, Stop: 52370, Start Num: 7  
Candidate Starts for MajinBuu\_78:  
(4, 51966), (Start: 7 @52023 has 35 MA's), (10, 52104), (11, 52128), (12, 52131), (14, 52215), (20, 52254), (26, 52332),

Gene: Mossy\_78 Start: 52559, Stop: 52906, Start Num: 7  
Candidate Starts for Mossy\_78:  
(6, 52520), (Start: 7 @52559 has 35 MA's), (9, 52607), (11, 52664), (12, 52667), (23, 52811),

Gene: Mysticmoon\_78 Start: 52201, Stop: 52548, Start Num: 7  
Candidate Starts for Mysticmoon\_78:  
(Start: 7 @52201 has 35 MA's), (11, 52306), (12, 52309), (23, 52453),

Gene: Nadmeg\_77 Start: 51977, Stop: 52324, Start Num: 7  
Candidate Starts for Nadmeg\_77:  
(Start: 7 @51977 has 35 MA's), (10, 52058), (17, 52178),

Gene: Nithya\_76 Start: 51360, Stop: 51707, Start Num: 7  
Candidate Starts for Nithya\_76:  
(Start: 7 @51360 has 35 MA's), (10, 51441), (17, 51561), (18, 51570),

Gene: OhMyWard\_74 Start: 52318, Stop: 52665, Start Num: 7  
Candidate Starts for OhMyWard\_74:  
(6, 52279), (Start: 7 @52318 has 35 MA's), (9, 52366), (11, 52423), (12, 52426), (23, 52570), (26, 52627),

Gene: OlgasClover\_80 Start: 52722, Stop: 53078, Start Num: 7  
Candidate Starts for OlgasClover\_80:  
(4, 52665), (Start: 7 @52722 has 35 MA's), (11, 52827), (12, 52830), (19, 52941), (20, 52953), (22, 52968),

Gene: PestoPenguin\_82 Start: 51286, Stop: 51633, Start Num: 7  
Candidate Starts for PestoPenguin\_82:  
(Start: 7 @51286 has 35 MA's), (10, 51367), (14, 51478), (17, 51487), (18, 51496), (23, 51538),

Gene: Phepper\_78 Start: 51216, Stop: 51563, Start Num: 7  
Candidate Starts for Phepper\_78:  
(Start: 7 @51216 has 35 MA's), (10, 51297), (12, 51324), (17, 51417), (18, 51426),

Gene: Pherobrine\_78 Start: 52256, Stop: 52603, Start Num: 7

Candidate Starts for Pherobrine\_78:

(Start: 7 @52256 has 35 MA's), (11, 52361), (12, 52364), (23, 52508),

Gene: Rickmore\_76 Start: 50323, Stop: 50679, Start Num: 7

Candidate Starts for Rickmore\_76:

(1, 50200), (Start: 7 @50323 has 35 MA's), (8, 50365), (11, 50428), (12, 50431), (20, 50554), (22, 50569),

Gene: Runhaar\_76 Start: 51025, Stop: 51372, Start Num: 7

Candidate Starts for Runhaar\_76:

(Start: 7 @51025 has 35 MA's), (10, 51106), (12, 51133), (17, 51226), (18, 51235),

Gene: ShaggyRogers\_77 Start: 51016, Stop: 51363, Start Num: 7

Candidate Starts for ShaggyRogers\_77:

(Start: 7 @51016 has 35 MA's), (10, 51097), (14, 51208), (18, 51226), (23, 51268),

Gene: TenaciousP\_78 Start: 52770, Stop: 53117, Start Num: 7

Candidate Starts for TenaciousP\_78:

(4, 52713), (Start: 7 @52770 has 35 MA's), (10, 52851), (11, 52875), (12, 52878), (14, 52962), (20, 53001), (26, 53079),

Gene: Tonaltzin\_82 Start: 51629, Stop: 51976, Start Num: 7

Candidate Starts for Tonaltzin\_82:

(Start: 7 @51629 has 35 MA's), (11, 51734), (12, 51737), (20, 51860), (23, 51881), (26, 51938),

Gene: Untouchable\_79 Start: 52213, Stop: 52554, Start Num: 7

Candidate Starts for Untouchable\_79:

(Start: 7 @52213 has 35 MA's), (10, 52294), (12, 52321), (17, 52414), (18, 52423),

Gene: Vardy\_76 Start: 50912, Stop: 51259, Start Num: 7

Candidate Starts for Vardy\_76:

(Start: 7 @50912 has 35 MA's), (10, 50993), (12, 51020), (14, 51104), (18, 51122),

Gene: Zeph\_79 Start: 52050, Stop: 52397, Start Num: 7

Candidate Starts for Zeph\_79:

(Start: 7 @52050 has 35 MA's), (10, 52131), (12, 52158), (14, 52242), (18, 52260),