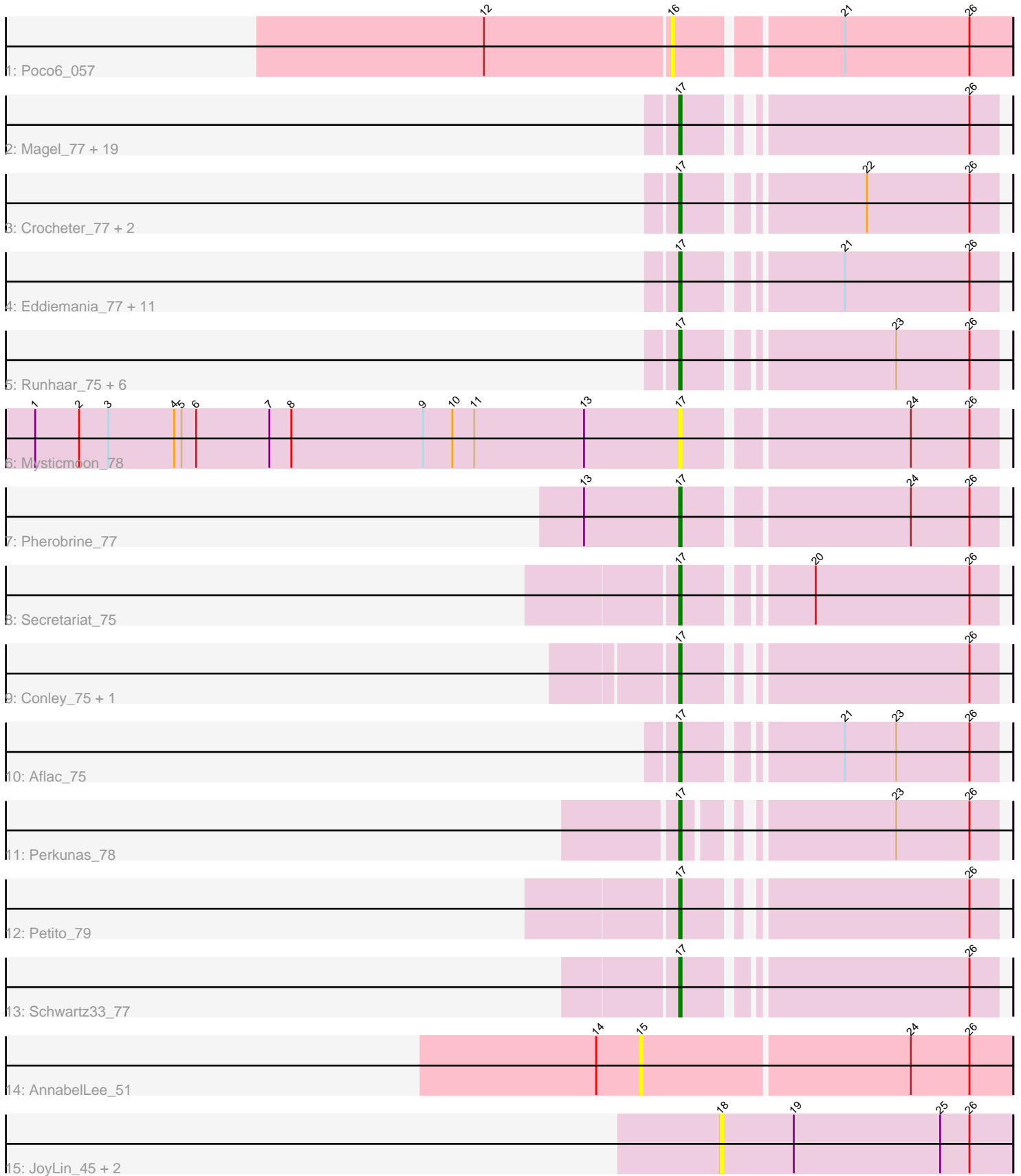


# Pham 194049



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 194049 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194049 has 56 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Poco6\_057
- Track 2 : Magel\_77, Odesza\_75, Avazak\_79, Mossy\_77, Captrips\_77, JulesRay\_80, Roney\_75, Kerry\_75, Hydrus\_76, Tanis\_76, Capybara\_76, AlainaMarie\_75, Gill\_76, OhMyWard\_73, Gravy\_75, Hortihabitatio\_79, Kenosha\_75, NoPickles\_77, Artorias\_78, FortCran\_78
- Track 3 : Crocheter\_77, Gusicorn\_80, ShaggyRogers\_79
- Track 4 : Eddiemania\_77, Figliar\_74, Zeph\_78, Vardy\_75, Chikenjars\_75, TenaciousP\_76, Phepper\_77, Burley\_76, Rickmore\_74, EndAve\_77, Jodelie19\_74, BluerMoon\_78
- Track 5 : Runhaar\_75, Duffington\_76, Madvan\_76, Nithya\_75, Untouchable\_78, OlgasClover\_77, Nadmeg\_76
- Track 6 : Mysticmoon\_78
- Track 7 : Pherobrine\_77
- Track 8 : Secretariat\_75
- Track 9 : Conley\_75, Fazel\_80
- Track 10 : Aflac\_75
- Track 11 : Perkunas\_78
- Track 12 : Petite\_79
- Track 13 : Schwartz33\_77
- Track 14 : AnnabelLee\_51
- Track 15 : JoyLin\_45, Eevee\_45, Yotsuba\_45

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

The start number called the most often in the published annotations is 17, it was called in 44 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aflac\_75, AlainaMarie\_75, Artorias\_78, Avazak\_79, BluerMoon\_78, Burley\_76, Captrips\_77, Capybara\_76, Chikenjars\_75, Conley\_75, Crocheter\_77, Duffington\_76, Eddiemania\_77, EndAve\_77, Fazel\_80, Figliar\_74, FortCran\_78, Gill\_76, Gravy\_75, Gusicorn\_80, Hortihabitatio\_79, Hydrus\_76, Jodelie19\_74, JulesRay\_80, Kenosha\_75, Kerry\_75, Madvan\_76, Magel\_77, Mossy\_77, Mysticmoon\_78, Nadmeg\_76, Nithya\_75, NoPickles\_77, Odesza\_75, OhMyWard\_73,

OlgasClover\_77, Perkunas\_78, Petite\_79, Phepper\_77, Pherobrine\_77, Rickmore\_74, Roney\_75, Runhaar\_75, Schwartz33\_77, Secretariat\_75, ShaggyRogers\_79, Tanis\_76, TenaciousP\_76, Untouchable\_78, Vardy\_75, Zeph\_78,

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

- 

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

- AnnabelLee\_51, Eevee\_45, JoyLin\_45, Poco6\_057, Yotsuba\_45,

### Summary by start number:

Start 15:

- Found in 1 of 56 ( 1.8% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnnabelLee\_51 (FR),

Start 16:

- Found in 1 of 56 ( 1.8% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Poco6\_057 (CC),

Start 17:

- Found in 51 of 56 ( 91.1% ) of genes in pham
- Manual Annotations of this start: 44 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aflac\_75 (DJ), AlainaMarie\_75 (DJ), Artorias\_78 (DJ), Avazak\_79 (DJ), BluerMoon\_78 (DJ), Burley\_76 (DJ), Captrips\_77 (DJ), Copybara\_76 (DJ), Chikenjars\_75 (DJ), Conley\_75 (DJ), Crocheter\_77 (DJ), Duffington\_76 (DJ), Eddiemania\_77 (DJ), EndAve\_77 (DJ), Fazel\_80 (DJ), Figliar\_74 (DJ), FortCran\_78 (DJ), Gill\_76 (DJ), Gravy\_75 (DJ), Gusicorn\_80 (DJ), Hortihabitatio\_79 (DJ), Hydrus\_76 (DJ), Jodelie19\_74 (DJ), JulesRay\_80 (DJ), Kenosha\_75 (DJ), Kerry\_75 (DJ), Madvan\_76 (DJ), Magel\_77 (DJ), Mossy\_77 (DJ), Mysticmoon\_78 (DJ), Nadmeg\_76 (DJ), Nithya\_75 (DJ), NoPickles\_77 (DJ), Odesza\_75 (DJ), OhMyWard\_73 (DJ), OlgasClover\_77 (DJ), Perkunas\_78 (DJ), Petite\_79 (DJ), Phepper\_77 (DJ), Pherobrine\_77 (DJ), Rickmore\_74 (DJ), Roney\_75 (DJ), Runhaar\_75 (DJ), Schwartz33\_77 (DJ), Secretariat\_75 (DJ), ShaggyRogers\_79 (DJ), Tanis\_76 (DJ), TenaciousP\_76 (DJ), Untouchable\_78 (DJ), Vardy\_75 (DJ), Zeph\_78 (DJ),

Start 18:

- Found in 3 of 56 ( 5.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Eevee\_45 (JA), JoyLin\_45 (JA), Yotsuba\_45 (JA),

### Summary by clusters:

There are 4 clusters represented in this pham: CC, FR, DJ, JA,

Info for manual annotations of cluster DJ:

•Start number 17 was manually annotated 44 times for cluster DJ.

**Gene Information:**

Gene: Aflac\_75 Start: 51259, Stop: 51378, Start Num: 17

Candidate Starts for Aflac\_75:

(Start: 17 @51259 has 44 MA's), (21, 51316), (23, 51337), (26, 51367),

Gene: AlainaMarie\_75 Start: 51316, Stop: 51435, Start Num: 17

Candidate Starts for AlainaMarie\_75:

(Start: 17 @51316 has 44 MA's), (26, 51424),

Gene: AnnabelLee\_51 Start: 32582, Stop: 32433, Start Num: 15

Candidate Starts for AnnabelLee\_51:

(14, 32600), (15, 32582), (24, 32474), (26, 32450),

Gene: Artorias\_78 Start: 50947, Stop: 51063, Start Num: 17

Candidate Starts for Artorias\_78:

(Start: 17 @50947 has 44 MA's), (26, 51052),

Gene: Avazak\_79 Start: 51629, Stop: 51745, Start Num: 17

Candidate Starts for Avazak\_79:

(Start: 17 @51629 has 44 MA's), (26, 51734),

Gene: BluerMoon\_78 Start: 51213, Stop: 51332, Start Num: 17

Candidate Starts for BluerMoon\_78:

(Start: 17 @51213 has 44 MA's), (21, 51270), (26, 51321),

Gene: Burley\_76 Start: 50762, Stop: 50881, Start Num: 17

Candidate Starts for Burley\_76:

(Start: 17 @50762 has 44 MA's), (21, 50819), (26, 50870),

Gene: Captrips\_77 Start: 50777, Stop: 50893, Start Num: 17

Candidate Starts for Captrips\_77:

(Start: 17 @50777 has 44 MA's), (26, 50882),

Gene: Capybara\_76 Start: 50614, Stop: 50730, Start Num: 17

Candidate Starts for Capybara\_76:

(Start: 17 @50614 has 44 MA's), (26, 50719),

Gene: Chikenjars\_75 Start: 51562, Stop: 51681, Start Num: 17

Candidate Starts for Chikenjars\_75:

(Start: 17 @51562 has 44 MA's), (21, 51619), (26, 51670),

Gene: Conley\_75 Start: 51077, Stop: 51193, Start Num: 17

Candidate Starts for Conley\_75:

(Start: 17 @51077 has 44 MA's), (26, 51182),

Gene: Crocheter\_77 Start: 51226, Stop: 51345, Start Num: 17  
Candidate Starts for Crocheter\_77:  
(Start: 17 @51226 has 44 MA's), (22, 51292), (26, 51334),

Gene: Duffington\_76 Start: 51530, Stop: 51649, Start Num: 17  
Candidate Starts for Duffington\_76:  
(Start: 17 @51530 has 44 MA's), (23, 51608), (26, 51638),

Gene: Eddiemania\_77 Start: 51804, Stop: 51923, Start Num: 17  
Candidate Starts for Eddiemania\_77:  
(Start: 17 @51804 has 44 MA's), (21, 51861), (26, 51912),

Gene: Eevee\_45 Start: 34471, Stop: 34590, Start Num: 18  
Candidate Starts for Eevee\_45:  
(18, 34471), (19, 34501), (25, 34561), (26, 34573),

Gene: EndAve\_77 Start: 51506, Stop: 51625, Start Num: 17  
Candidate Starts for EndAve\_77:  
(Start: 17 @51506 has 44 MA's), (21, 51563), (26, 51614),

Gene: Fazel\_80 Start: 51692, Stop: 51811, Start Num: 17  
Candidate Starts for Fazel\_80:  
(Start: 17 @51692 has 44 MA's), (26, 51800),

Gene: Figliar\_74 Start: 51330, Stop: 51449, Start Num: 17  
Candidate Starts for Figliar\_74:  
(Start: 17 @51330 has 44 MA's), (21, 51387), (26, 51438),

Gene: FortCran\_78 Start: 50947, Stop: 51063, Start Num: 17  
Candidate Starts for FortCran\_78:  
(Start: 17 @50947 has 44 MA's), (26, 51052),

Gene: Gill\_76 Start: 50642, Stop: 50758, Start Num: 17  
Candidate Starts for Gill\_76:  
(Start: 17 @50642 has 44 MA's), (26, 50747),

Gene: Gravy\_75 Start: 50304, Stop: 50420, Start Num: 17  
Candidate Starts for Gravy\_75:  
(Start: 17 @50304 has 44 MA's), (26, 50409),

Gene: Gusicorn\_80 Start: 51133, Stop: 51252, Start Num: 17  
Candidate Starts for Gusicorn\_80:  
(Start: 17 @51133 has 44 MA's), (22, 51199), (26, 51241),

Gene: Hortihabitatio\_79 Start: 52082, Stop: 52201, Start Num: 17  
Candidate Starts for Hortihabitatio\_79:  
(Start: 17 @52082 has 44 MA's), (26, 52190),

Gene: Hydrus\_76 Start: 51523, Stop: 51642, Start Num: 17  
Candidate Starts for Hydrus\_76:  
(Start: 17 @51523 has 44 MA's), (26, 51631),

Gene: Jodelie19\_74 Start: 52497, Stop: 52616, Start Num: 17  
Candidate Starts for Jodelie19\_74:  
(Start: 17 @52497 has 44 MA's), (21, 52554), (26, 52605),

Gene: JoyLin\_45 Start: 34591, Stop: 34710, Start Num: 18  
Candidate Starts for JoyLin\_45:  
(18, 34591), (19, 34621), (25, 34681), (26, 34693),

Gene: JulesRay\_80 Start: 51296, Stop: 51412, Start Num: 17  
Candidate Starts for JulesRay\_80:  
(Start: 17 @51296 has 44 MA's), (26, 51401),

Gene: Kenosha\_75 Start: 51351, Stop: 51470, Start Num: 17  
Candidate Starts for Kenosha\_75:  
(Start: 17 @51351 has 44 MA's), (26, 51459),

Gene: Kerry\_75 Start: 50367, Stop: 50483, Start Num: 17  
Candidate Starts for Kerry\_75:  
(Start: 17 @50367 has 44 MA's), (26, 50472),

Gene: Madvan\_76 Start: 50818, Stop: 50937, Start Num: 17  
Candidate Starts for Madvan\_76:  
(Start: 17 @50818 has 44 MA's), (23, 50896), (26, 50926),

Gene: Magel\_77 Start: 50557, Stop: 50673, Start Num: 17  
Candidate Starts for Magel\_77:  
(Start: 17 @50557 has 44 MA's), (26, 50662),

Gene: Mossy\_77 Start: 52440, Stop: 52559, Start Num: 17  
Candidate Starts for Mossy\_77:  
(Start: 17 @52440 has 44 MA's), (26, 52548),

Gene: Mysticmoon\_78 Start: 52079, Stop: 52201, Start Num: 17  
Candidate Starts for Mysticmoon\_78:  
(1, 51815), (2, 51833), (3, 51845), (4, 51872), (5, 51875), (6, 51881), (7, 51911), (8, 51920), (9, 51974), (10, 51986), (11, 51995), (13, 52040), (Start: 17 @52079 has 44 MA's), (24, 52166), (26, 52190),

Gene: Nadmeg\_76 Start: 51821, Stop: 51940, Start Num: 17  
Candidate Starts for Nadmeg\_76:  
(Start: 17 @51821 has 44 MA's), (23, 51899), (26, 51929),

Gene: Nithya\_75 Start: 51204, Stop: 51323, Start Num: 17  
Candidate Starts for Nithya\_75:  
(Start: 17 @51204 has 44 MA's), (23, 51282), (26, 51312),

Gene: NoPickles\_77 Start: 50463, Stop: 50579, Start Num: 17  
Candidate Starts for NoPickles\_77:  
(Start: 17 @50463 has 44 MA's), (26, 50568),

Gene: Odesza\_75 Start: 50501, Stop: 50617, Start Num: 17  
Candidate Starts for Odesza\_75:  
(Start: 17 @50501 has 44 MA's), (26, 50606),

Gene: OhMyWard\_73 Start: 52199, Stop: 52318, Start Num: 17  
Candidate Starts for OhMyWard\_73:  
(Start: 17 @52199 has 44 MA's), (26, 52307),

Gene: OlgasClover\_77 Start: 52120, Stop: 52239, Start Num: 17  
Candidate Starts for OlgasClover\_77:  
(Start: 17 @52120 has 44 MA's), (23, 52198), (26, 52228),

Gene: Perkunas\_78 Start: 50566, Stop: 50679, Start Num: 17  
Candidate Starts for Perkunas\_78:  
(Start: 17 @50566 has 44 MA's), (23, 50638), (26, 50668),

Gene: Petito\_79 Start: 52029, Stop: 52145, Start Num: 17  
Candidate Starts for Petito\_79:  
(Start: 17 @52029 has 44 MA's), (26, 52134),

Gene: Phepper\_77 Start: 51060, Stop: 51179, Start Num: 17  
Candidate Starts for Phepper\_77:  
(Start: 17 @51060 has 44 MA's), (21, 51117), (26, 51168),

Gene: Pherobrine\_77 Start: 52134, Stop: 52256, Start Num: 17  
Candidate Starts for Pherobrine\_77:  
(13, 52095), (Start: 17 @52134 has 44 MA's), (24, 52221), (26, 52245),

Gene: Poco6\_057 Start: 66807, Stop: 66938, Start Num: 16  
Candidate Starts for Poco6\_057:  
(12, 66732), (16, 66807), (21, 66870), (26, 66921),

Gene: Rickmore\_74 Start: 49877, Stop: 49996, Start Num: 17  
Candidate Starts for Rickmore\_74:  
(Start: 17 @49877 has 44 MA's), (21, 49934), (26, 49985),

Gene: Roney\_75 Start: 50667, Stop: 50783, Start Num: 17  
Candidate Starts for Roney\_75:  
(Start: 17 @50667 has 44 MA's), (26, 50772),

Gene: Runhaar\_75 Start: 50869, Stop: 50988, Start Num: 17  
Candidate Starts for Runhaar\_75:  
(Start: 17 @50869 has 44 MA's), (23, 50947), (26, 50977),

Gene: Schwartz33\_77 Start: 51200, Stop: 51319, Start Num: 17  
Candidate Starts for Schwartz33\_77:  
(Start: 17 @51200 has 44 MA's), (26, 51308),

Gene: Secretariat\_75 Start: 50334, Stop: 50453, Start Num: 17  
Candidate Starts for Secretariat\_75:  
(Start: 17 @50334 has 44 MA's), (20, 50379), (26, 50442),

Gene: ShaggyRogers\_79 Start: 50863, Stop: 50982, Start Num: 17  
Candidate Starts for ShaggyRogers\_79:  
(Start: 17 @50863 has 44 MA's), (22, 50929), (26, 50971),

Gene: Tanis\_76 Start: 50487, Stop: 50603, Start Num: 17  
Candidate Starts for Tanis\_76:  
(Start: 17 @50487 has 44 MA's), (26, 50592),

Gene: TenaciousP\_76 Start: 52459, Stop: 52578, Start Num: 17  
Candidate Starts for TenaciousP\_76:  
(Start: 17 @52459 has 44 MA's), (21, 52516), (26, 52567),

Gene: Untouchable\_78 Start: 52057, Stop: 52176, Start Num: 17  
Candidate Starts for Untouchable\_78:  
(Start: 17 @52057 has 44 MA's), (23, 52135), (26, 52165),

Gene: Vardy\_75 Start: 50756, Stop: 50875, Start Num: 17  
Candidate Starts for Vardy\_75:  
(Start: 17 @50756 has 44 MA's), (21, 50813), (26, 50864),

Gene: Yotsuba\_45 Start: 34609, Stop: 34728, Start Num: 18  
Candidate Starts for Yotsuba\_45:  
(18, 34609), (19, 34639), (25, 34699), (26, 34711),

Gene: Zeph\_78 Start: 51894, Stop: 52013, Start Num: 17  
Candidate Starts for Zeph\_78:  
(Start: 17 @51894 has 44 MA's), (21, 51951), (26, 52002),