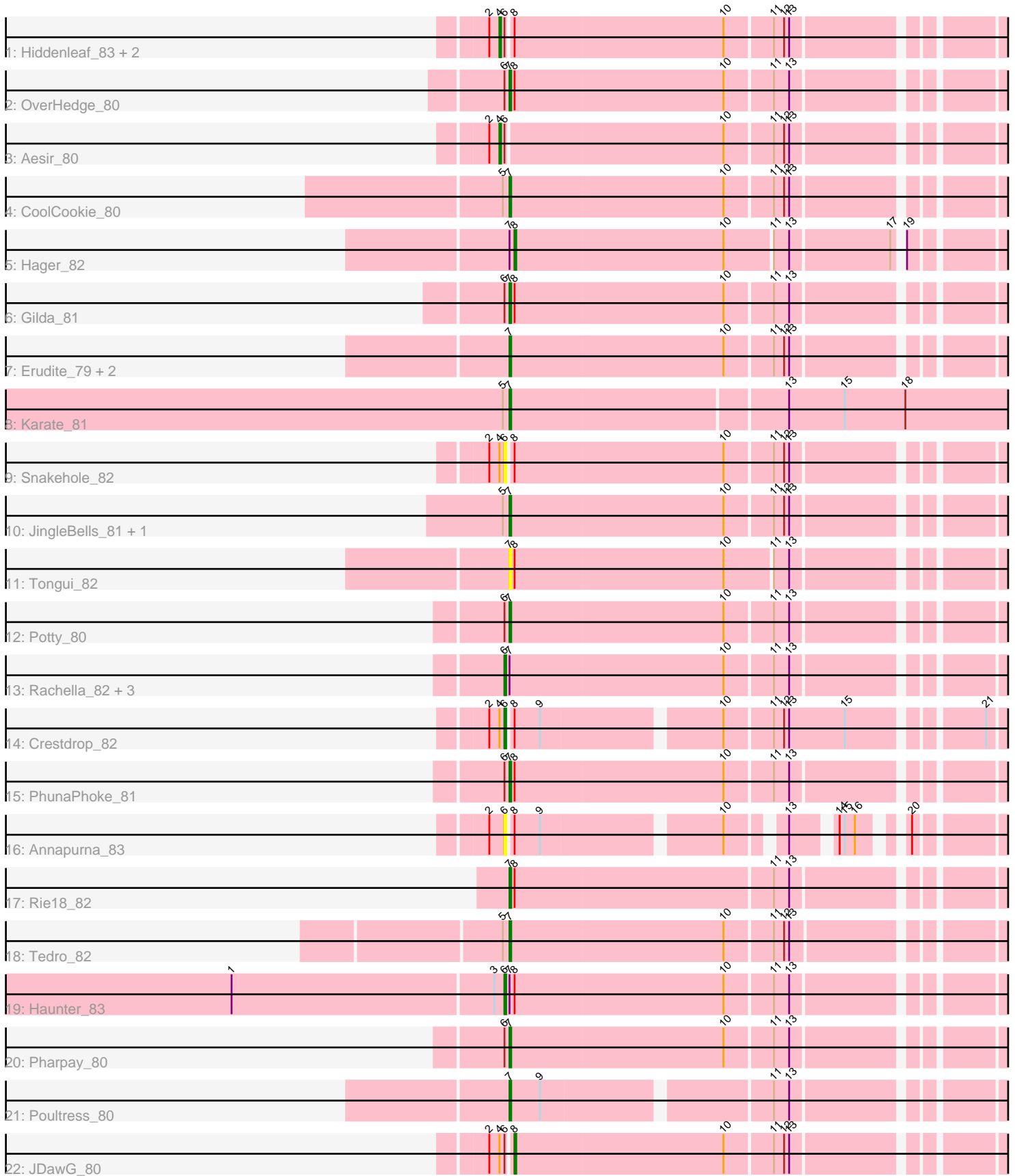


# Zoomed Pham 224802



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 224802 Report

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

Pham number 224802 has 30 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Hiddenleaf\_83, Chivey\_83, FreddieHg\_83
- Track 2 : OverHedge\_80
- Track 3 : Aesir\_80
- Track 4 : CoolCookie\_80
- Track 5 : Hager\_82
- Track 6 : Gilda\_81
- Track 7 : Erudite\_79, MortySmith\_78, Dauntless\_79
- Track 8 : Karate\_81
- Track 9 : Snakehole\_82
- Track 10 : JingleBells\_81, SilentWarrior\_82
- Track 11 : Tongui\_82
- Track 12 : Potty\_80
- Track 13 : Rachella\_82, Kate\_82, NarutoRun\_81, Anakin\_81
- Track 14 : Crestdrop\_82
- Track 15 : PhunaPhoke\_81
- Track 16 : Annapurna\_83
- Track 17 : Rie18\_82
- Track 18 : Tedro\_82
- Track 19 : Haunter\_83
- Track 20 : Pharpay\_80
- Track 21 : Poultruss\_80
- Track 22 : JDawG\_80

### ***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 14 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CoolCookie\_80, Dauntless\_79, Erudite\_79, Gilda\_81, JingleBells\_81, Karate\_81, MortySmith\_78, OverHedge\_80, Pharpay\_80, PhunaPhoke\_81, Potty\_80, Poultruss\_80, Rie18\_82, SilentWarrior\_82, Tedro\_82, Tongui\_82,

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

- Anakin\_81, Hager\_82, Haunter\_83, Kate\_82, NarutoRun\_81, Rachella\_82,

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

- Aesir\_80, Annapurna\_83, Chivey\_83, Crestdrop\_82, FreddieHg\_83, Hiddenleaf\_83, JDawG\_80, Snakehole\_82,

### Summary by start number:

Start 4:

- Found in 7 of 30 ( 23.3% ) of genes in pham
- Manual Annotations of this start: 4 of 26
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Aesir\_80 (EF), Chivey\_83 (EF), FreddieHg\_83 (EF), Hiddenleaf\_83 (EF),

Start 6:

- Found in 18 of 30 ( 60.0% ) of genes in pham
- Manual Annotations of this start: 6 of 26
- Called 44.4% of time when present
- Phage (with cluster) where this start called: Anakin\_81 (EF), Annapurna\_83 (EF), Crestdrop\_82 (EF), Haunter\_83 (EF), Kate\_82 (EF), NarutoRun\_81 (EF), Rachella\_82 (EF), Snakehole\_82 (EF),

Start 7:

- Found in 22 of 30 ( 73.3% ) of genes in pham
- Manual Annotations of this start: 14 of 26
- Called 72.7% of time when present
- Phage (with cluster) where this start called: CoolCookie\_80 (EF), Dauntless\_79 (EF), Erudite\_79 (EF), Gilda\_81 (EF), JingleBells\_81 (EF), Karate\_81 (EF), MortySmith\_78 (EF), OverHedge\_80 (EF), Pharpay\_80 (EF), PhunaPhoke\_81 (EF), Potty\_80 (EF), Poultruss\_80 (EF), Rie18\_82 (EF), SilentWarrior\_82 (EF), Tedro\_82 (EF), Tongui\_82 (EF),

Start 8:

- Found in 14 of 30 ( 46.7% ) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Hager\_82 (EF), JDawG\_80 (EF),

### Summary by clusters:

There is one cluster represented in this pham: EF

Info for manual annotations of cluster EF:

- Start number 4 was manually annotated 4 times for cluster EF.
- Start number 6 was manually annotated 6 times for cluster EF.
- Start number 7 was manually annotated 14 times for cluster EF.
- Start number 8 was manually annotated 2 times for cluster EF.

### Gene Information:

Gene: Aesir\_80 Start: 54421, Stop: 55284, Start Num: 4

Candidate Starts for Aesir\_80:

(2, 54415), (Start: 4 @54421 has 4 MA's), (Start: 6 @54424 has 6 MA's), (10, 54550), (11, 54577), (12, 54583), (13, 54586), (24, 54853), (26, 54892), (27, 54904), (28, 54952), (29, 54970), (30, 55003), (32, 55021), (33, 55039), (39, 55195),

Gene: Anakin\_81 Start: 54801, Stop: 55664, Start Num: 6

Candidate Starts for Anakin\_81:

(Start: 6 @54801 has 6 MA's), (Start: 7 @54804 has 14 MA's), (10, 54930), (11, 54957), (13, 54966), (26, 55272), (27, 55284), (28, 55332), (29, 55350), (30, 55383), (41, 55596),

Gene: Annapurna\_83 Start: 54423, Stop: 55247, Start Num: 6

Candidate Starts for Annapurna\_83:

(2, 54414), (Start: 6 @54423 has 6 MA's), (Start: 8 @54426 has 2 MA's), (9, 54441), (10, 54540), (13, 54567), (14, 54588), (15, 54591), (16, 54597), (20, 54615), (24, 54816), (26, 54855), (27, 54867), (28, 54915), (29, 54933), (30, 54966), (32, 54984), (33, 55002), (39, 55158),

Gene: Chivey\_83 Start: 54223, Stop: 55083, Start Num: 4

Candidate Starts for Chivey\_83:

(2, 54217), (Start: 4 @54223 has 4 MA's), (Start: 6 @54226 has 6 MA's), (Start: 8 @54229 has 2 MA's), (10, 54352), (11, 54379), (12, 54385), (13, 54388), (24, 54652), (26, 54691), (27, 54703), (28, 54751), (29, 54769), (30, 54802), (32, 54820), (33, 54838), (39, 54994),

Gene: CoolCookie\_80 Start: 54925, Stop: 55782, Start Num: 7

Candidate Starts for CoolCookie\_80:

(5, 54922), (Start: 7 @54925 has 14 MA's), (10, 55051), (11, 55078), (12, 55084), (13, 55087), (24, 55351), (26, 55390), (27, 55402), (28, 55450), (30, 55501), (32, 55519), (33, 55537), (39, 55693),

Gene: Crestdrop\_82 Start: 54745, Stop: 55608, Start Num: 6

Candidate Starts for Crestdrop\_82:

(2, 54736), (Start: 4 @54742 has 4 MA's), (Start: 6 @54745 has 6 MA's), (Start: 8 @54748 has 2 MA's), (9, 54763), (10, 54862), (11, 54889), (12, 54895), (13, 54898), (15, 54931), (21, 55000), (24, 55165), (26, 55204), (27, 55216), (28, 55264), (29, 55282), (30, 55315), (32, 55333), (33, 55351), (35, 55477), (37, 55498), (40, 55531),

Gene: Dauntless\_79 Start: 54128, Stop: 54988, Start Num: 7

Candidate Starts for Dauntless\_79:

(Start: 7 @54128 has 14 MA's), (10, 54254), (11, 54281), (12, 54287), (13, 54290), (24, 54557), (26, 54596), (27, 54608), (28, 54656), (29, 54674), (30, 54707), (32, 54725), (33, 54743), (39, 54899),

Gene: Erudite\_79 Start: 54128, Stop: 54988, Start Num: 7

Candidate Starts for Erudite\_79:

(Start: 7 @54128 has 14 MA's), (10, 54254), (11, 54281), (12, 54287), (13, 54290), (24, 54557), (26, 54596), (27, 54608), (28, 54656), (29, 54674), (30, 54707), (32, 54725), (33, 54743), (39, 54899),

Gene: FreddieHg\_83 Start: 54240, Stop: 55100, Start Num: 4

Candidate Starts for FreddieHg\_83:

(2, 54234), (Start: 4 @54240 has 4 MA's), (Start: 6 @54243 has 6 MA's), (Start: 8 @54246 has 2 MA's), (10, 54369), (11, 54396), (12, 54402), (13, 54405), (24, 54669), (26, 54708), (27, 54720), (28, 54768), (29, 54786), (30, 54819), (32, 54837), (33, 54855), (39, 55011),

Gene: Gilda\_81 Start: 54832, Stop: 55692, Start Num: 7

Candidate Starts for Gilda\_81:

(Start: 6 @54829 has 6 MA's), (Start: 7 @54832 has 14 MA's), (Start: 8 @54835 has 2 MA's), (10, 54958), (11, 54985), (13, 54994), (23, 55237), (26, 55300), (27, 55312), (28, 55360), (29, 55378), (30, 55411), (41, 55624),

Gene: Hager\_82 Start: 53963, Stop: 54835, Start Num: 8

Candidate Starts for Hager\_82:

(Start: 7 @53960 has 14 MA's), (Start: 8 @53963 has 2 MA's), (10, 54086), (11, 54113), (13, 54122), (17, 54179), (19, 54182), (24, 54386), (26, 54425), (27, 54437), (28, 54485), (29, 54503), (30, 54536), (31, 54551), (35, 54698), (40, 54752), (43, 54764),

Gene: Haunter\_83 Start: 54202, Stop: 55065, Start Num: 6

Candidate Starts for Haunter\_83:

(1, 54043), (3, 54196), (Start: 6 @54202 has 6 MA's), (Start: 7 @54205 has 14 MA's), (Start: 8 @54208 has 2 MA's), (10, 54331), (11, 54358), (13, 54367), (26, 54673), (27, 54685), (28, 54733), (29, 54751), (30, 54784), (41, 54997),

Gene: Hiddenleaf\_83 Start: 54223, Stop: 55083, Start Num: 4

Candidate Starts for Hiddenleaf\_83:

(2, 54217), (Start: 4 @54223 has 4 MA's), (Start: 6 @54226 has 6 MA's), (Start: 8 @54229 has 2 MA's), (10, 54352), (11, 54379), (12, 54385), (13, 54388), (24, 54652), (26, 54691), (27, 54703), (28, 54751), (29, 54769), (30, 54802), (32, 54820), (33, 54838), (39, 54994),

Gene: JDawG\_80 Start: 54422, Stop: 55276, Start Num: 8

Candidate Starts for JDawG\_80:

(2, 54410), (Start: 4 @54416 has 4 MA's), (Start: 6 @54419 has 6 MA's), (Start: 8 @54422 has 2 MA's), (10, 54545), (11, 54572), (12, 54578), (13, 54581), (24, 54845), (26, 54884), (27, 54896), (28, 54944), (29, 54962), (30, 54995), (32, 55013), (33, 55031), (39, 55187),

Gene: JingleBells\_81 Start: 54352, Stop: 55215, Start Num: 7

Candidate Starts for JingleBells\_81:

(5, 54349), (Start: 7 @54352 has 14 MA's), (10, 54478), (11, 54505), (12, 54511), (13, 54514), (24, 54778), (26, 54817), (27, 54829), (28, 54877), (29, 54895), (30, 54928), (32, 54946), (33, 54964), (37, 55105), (40, 55138),

Gene: Karate\_81 Start: 54532, Stop: 55410, Start Num: 7

Candidate Starts for Karate\_81:

(5, 54529), (Start: 7 @54532 has 14 MA's), (13, 54691), (15, 54724), (18, 54760), (22, 54895), (24, 54979), (25, 55003), (26, 55018), (27, 55030), (28, 55078), (29, 55096), (30, 55129), (32, 55147), (33, 55165), (34, 55252), (38, 55321),

Gene: Kate\_82 Start: 54746, Stop: 55609, Start Num: 6

Candidate Starts for Kate\_82:

(Start: 6 @54746 has 6 MA's), (Start: 7 @54749 has 14 MA's), (10, 54875), (11, 54902), (13, 54911), (26, 55217), (27, 55229), (28, 55277), (29, 55295), (30, 55328), (41, 55541),

Gene: MortySmith\_78 Start: 53602, Stop: 54462, Start Num: 7

Candidate Starts for MortySmith\_78:

(Start: 7 @53602 has 14 MA's), (10, 53728), (11, 53755), (12, 53761), (13, 53764), (24, 54031), (26, 54070), (27, 54082), (28, 54130), (29, 54148), (30, 54181), (32, 54199), (33, 54217), (39, 54373),

Gene: NarutoRun\_81 Start: 54801, Stop: 55664, Start Num: 6

Candidate Starts for NarutoRun\_81:

(Start: 6 @54801 has 6 MA's), (Start: 7 @54804 has 14 MA's), (10, 54930), (11, 54957), (13, 54966), (26, 55272), (27, 55284), (28, 55332), (29, 55350), (30, 55383), (41, 55596),

Gene: OverHedge\_80 Start: 54691, Stop: 55551, Start Num: 7

Candidate Starts for OverHedge\_80:

(Start: 6 @54688 has 6 MA's), (Start: 7 @54691 has 14 MA's), (Start: 8 @54694 has 2 MA's), (10, 54817), (11, 54844), (13, 54853), (23, 55096), (26, 55159), (27, 55171), (28, 55219), (29, 55237), (30, 55270), (41, 55483),

Gene: Pharpay\_80 Start: 54849, Stop: 55709, Start Num: 7

Candidate Starts for Pharpay\_80:

(Start: 6 @54846 has 6 MA's), (Start: 7 @54849 has 14 MA's), (10, 54975), (11, 55002), (13, 55011), (24, 55278), (26, 55317), (27, 55329), (28, 55377), (29, 55395), (30, 55428), (41, 55641),

Gene: PhunaPhoke\_81 Start: 54819, Stop: 55679, Start Num: 7

Candidate Starts for PhunaPhoke\_81:

(Start: 6 @54816 has 6 MA's), (Start: 7 @54819 has 14 MA's), (Start: 8 @54822 has 2 MA's), (10, 54945), (11, 54972), (13, 54981), (23, 55224), (26, 55287), (27, 55299), (28, 55347), (29, 55365), (30, 55398), (41, 55611),

Gene: Potty\_80 Start: 54749, Stop: 55609, Start Num: 7

Candidate Starts for Potty\_80:

(Start: 6 @54746 has 6 MA's), (Start: 7 @54749 has 14 MA's), (10, 54875), (11, 54902), (13, 54911), (23, 55154), (26, 55217), (27, 55229), (28, 55277), (29, 55295), (30, 55328), (41, 55541),

Gene: Poultruss\_80 Start: 54704, Stop: 55555, Start Num: 7

Candidate Starts for Poultruss\_80:

(Start: 7 @54704 has 14 MA's), (9, 54722), (11, 54848), (13, 54857), (24, 55124), (26, 55163), (27, 55175), (28, 55223), (29, 55241), (41, 55487),

Gene: Rachella\_82 Start: 54827, Stop: 55690, Start Num: 6

Candidate Starts for Rachella\_82:

(Start: 6 @54827 has 6 MA's), (Start: 7 @54830 has 14 MA's), (10, 54956), (11, 54983), (13, 54992), (26, 55298), (27, 55310), (28, 55358), (29, 55376), (30, 55409), (41, 55622),

Gene: Rie18\_82 Start: 54561, Stop: 55439, Start Num: 7

Candidate Starts for Rie18\_82:

(Start: 7 @54561 has 14 MA's), (Start: 8 @54564 has 2 MA's), (11, 54714), (13, 54723), (24, 54990), (26, 55029), (27, 55041), (28, 55089), (29, 55107), (30, 55140), (31, 55155), (35, 55302), (37, 55323), (40, 55356), (43, 55368),

Gene: SilentWarrior\_82 Start: 54213, Stop: 55076, Start Num: 7

Candidate Starts for SilentWarrior\_82:

(5, 54210), (Start: 7 @54213 has 14 MA's), (10, 54339), (11, 54366), (12, 54372), (13, 54375), (24, 54639), (26, 54678), (27, 54690), (28, 54738), (29, 54756), (30, 54789), (32, 54807), (33, 54825), (37, 54966), (40, 54999),

Gene: Snakehole\_82 Start: 54175, Stop: 55032, Start Num: 6

Candidate Starts for Snakehole\_82:

(2, 54166), (Start: 4 @54172 has 4 MA's), (Start: 6 @54175 has 6 MA's), (Start: 8 @54178 has 2 MA's), (10, 54301), (11, 54328), (12, 54334), (13, 54337), (24, 54601), (26, 54640), (27, 54652), (28, 54700), (29, 54718), (30, 54751), (32, 54769), (33, 54787), (39, 54943),

Gene: Tedro\_82 Start: 54322, Stop: 55179, Start Num: 7

Candidate Starts for Tedro\_82:

(5, 54319), (Start: 7 @54322 has 14 MA's), (10, 54448), (11, 54475), (12, 54481), (13, 54484), (24, 54748), (26, 54787), (27, 54799), (28, 54847), (29, 54865), (30, 54898), (34, 55021), (38, 55090),

Gene: Tongui\_82 Start: 54343, Stop: 55221, Start Num: 7

Candidate Starts for Tongui\_82:

(Start: 7 @54343 has 14 MA's), (Start: 8 @54346 has 2 MA's), (10, 54469), (11, 54496), (13, 54505), (22, 54688), (24, 54772), (26, 54811), (27, 54823), (28, 54871), (35, 55084), (36, 55096), (37, 55105), (40, 55138), (42, 55147), (43, 55150),