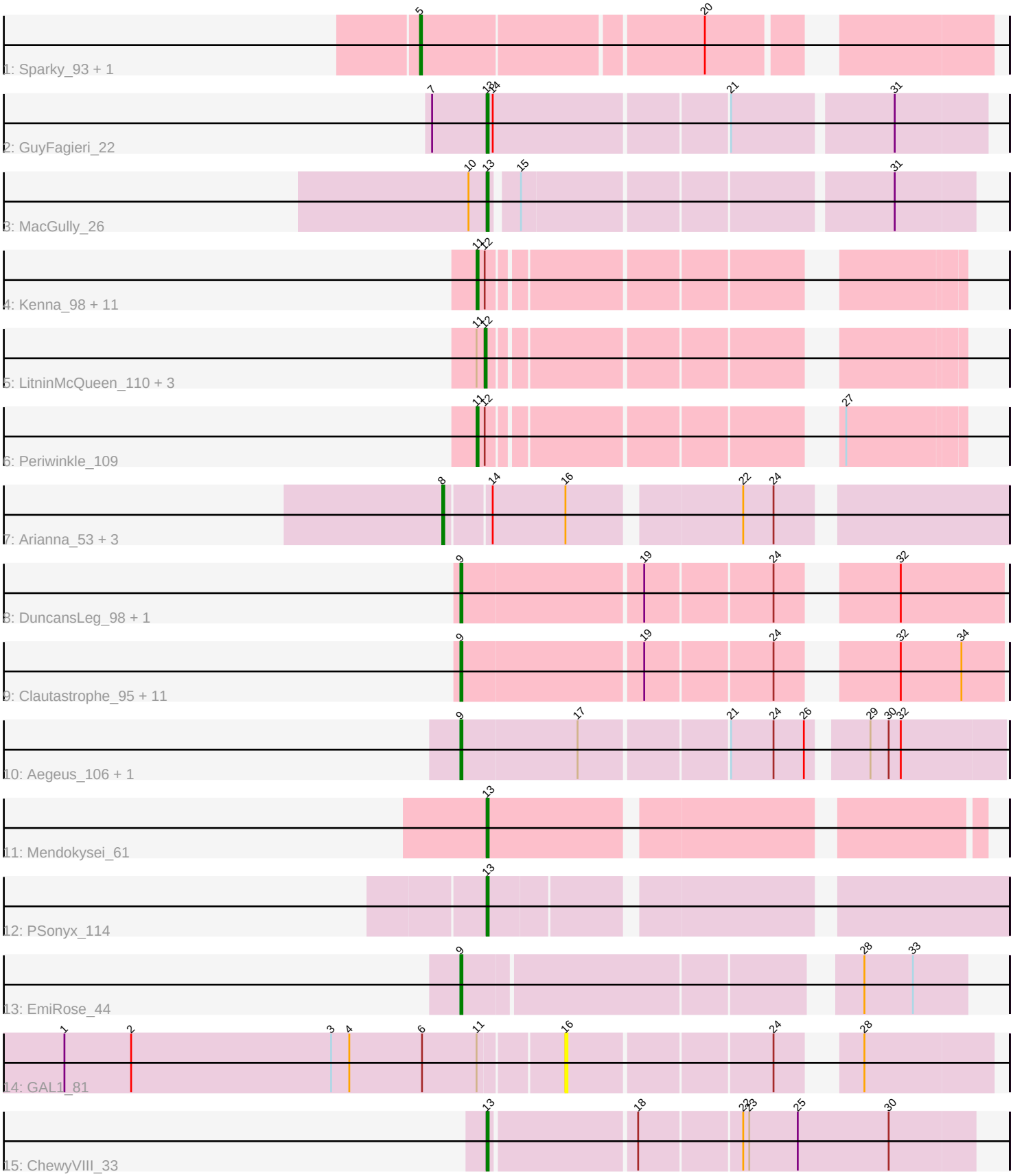
Pham 85861


1: Sparky_93 + 1
5
20
2: GuyFagieri_22
7
13
14
21
31
3: MacGully_26
10
13
15
31
4: Kenna_98 + 11
11
12
5: LitninMcQueen_110 + 3
11
12
6: Periwinkle_109
11
12
27
7: Arianna_53 + 3
8
14
16
22
24
8: DuncansLeg_98 + 1
9
19
24
32
9: Clautastrophe_95 + 11
9
19
24
32
34
10: Aegeus_106 + 1
9
17
21
24
26
29
30
32
11: Mendokysei_61
13
12: PSonyx_114
13
13: EmiRose_44
9
28
33
14: GAL1_81
1
2
3
4
6
11
16
24
28
15: ChewyVIII_33
13
18
22
23
25
30

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 85861 Report

This analysis was run 04/28/24 on database version 559.

Pham number 85861 has 46 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Sparky_93, Farewell_94
• Track 2 : GuyFagieri_22
• Track 3 : MacGully_26
• Track 4 : Kenna_98, Holliday_102, Phistory_106, Getalong_103, Lutum_104, Frickyeah_107, Horus_103, Budski_106, BENtherdunthat_101, Kamaru_100, Whitney_104, Leroy_103
• Track 5 : LitninMcQueen_110, Asapag_98, Phabuloso_109, CheeseTouch_110
• Track 6 : Periwinkle_109
• Track 7 : Arianna_53, Poushou_53, TouchMeNot_53, Colleen_53
• Track 8 : DuncansLeg_98, Ellson_96
• Track 9 : Clautastrophe_95, Jobypre_98, Bellis_95, Kingsolomon_95, Jubie_96, Moostard_94, Samty_96, Snenia_96, Lumos_97, Finnry_97, MsGreen_97, Nicholas_95
• Track 10 : Aegeus_106, Baudelaire_106
• Track 11 : Mendokysei_61
• Track 12 : PSonyx_114
• Track 13 : EmiRose_44
• Track 14 : GAL1_81
• Track 15 : ChewyVIII_33

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

The start number called the most often in the published annotations is 9, it was called in 14 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aegeus_106, Baudelaire_106, Bellis_95, Clautastrophe_95, DuncansLeg_98, Ellson_96, EmiRose_44, Finnry_97, Jobypre_98, Jubie_96, Kingsolomon_95, Lumos_97, Moostard_94, MsGreen_97, Nicholas_95, Samty_96, Snenia_96,

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

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

• Arianna_53, Asapag_98, BENtherdunthat_101, Budski_106, CheeseTouch_110, ChewyVIII_33, Colleen_53, Farewell_94, Frickyeah_107, GAL1_81, Getalong_103, GuyFagieri_22, Holliday_102, Horus_103, Kamaru_100, Kenna_98, Leroy_103, LitninMcQueen_110, Lutum_104, MacGully_26, Mendokysei_61, PSonyx_114, Periwinkle_109, Phabuloso_109, Phistory_106, Poushou_53, Sparky_93, TouchMeNot_53, Whitney_104,

Summary by start number:

Start 5:
• Found in 2 of 46 (4.3%) of genes in pham
• Manual Annotations of this start: 2 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Farewell_94 (AF), Sparky_93 (AF),

Start 8:
• Found in 4 of 46 (8.7%) of genes in pham
• Manual Annotations of this start: 4 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arianna_53 (EO), Colleen_53 (EO), Poushou_53 (EO), TouchMeNot_53 (EO),

Start 9:
• Found in 17 of 46 (37.0%) of genes in pham
• Manual Annotations of this start: 14 of 40
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aegeus_106 (L5), Baudelaire_106 (L5), Bellis_95 (L3), Clautastrophe_95 (L3), DuncansLeg_98 (L3), Ellson_96 (L3), EmiRose_44 (singleton), Finnry_97 (L3), Jobypre_98 (L3), Jubie_96 (L3), Kingsolomon_95 (L3), Lumos_97 (L3), Moostard_94 (L3), MsGreen_97 (L3), Nicholas_95 (L3), Samty_96 (L3), Snenia_96 (L3),

Start 11:
• Found in 18 of 46 (39.1%) of genes in pham
• Manual Annotations of this start: 11 of 40
• Called 72.2% of time when present
• Phage (with cluster) where this start called: BENtherdunthat_101 (DN1), Budski_106 (DN), Frickyeah_107 (DN1), Getalong_103 (DN1), Holliday_102 (DN1), Horus_103 (DN1), Kamaru_100 (DN1), Kenna_98 (DN1), Leroy_103 (DN1), Lutum_104 (DN1), Periwinkle_109 (DN1), Phistory_106 (DN1), Whitney_104 (DN1),

Start 12:
• Found in 17 of 46 (37.0%) of genes in pham
• Manual Annotations of this start: 4 of 40
• Called 23.5% of time when present
• Phage (with cluster) where this start called: Asapag_98 (DN1), CheeseTouch_110 (DN1), LitninMcQueen_110 (DN1), Phabuloso_109 (DN1),

Start 13:
• Found in 5 of 46 (10.9%) of genes in pham
• Manual Annotations of this start: 5 of 40
• Called 100.0% of time when present

• Phage (with cluster) where this start called: ChewyVIII_33 (singleton), GuyFagieri_22 (CR), MacGully_26 (CR), Mendokysei_61 (T), PSonyx_114 (singleton),

Start 16:
• Found in 5 of 46 (10.9%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: GAL1_81 (singleton),

Summary by clusters:

There are 9 clusters represented in this pham: DN, EO, AF, singleton, L5, DN1, L3, CR, T,

Info for manual annotations of cluster AF:
•Start number 5 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster CR:
•Start number 13 was manually annotated 2 times for cluster CR.

Info for manual annotations of cluster DN:
•Start number 11 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 11 was manually annotated 10 times for cluster DN1.
•Start number 12 was manually annotated 4 times for cluster DN1.

Info for manual annotations of cluster EO:
•Start number 8 was manually annotated 4 times for cluster EO.

Info for manual annotations of cluster L3:
•Start number 9 was manually annotated 11 times for cluster L3.

Info for manual annotations of cluster L5:
•Start number 9 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster T:
•Start number 13 was manually annotated 1 time for cluster T.

Gene Information:

Gene: Aegeus_106 Start: 62698, Stop: 62949, Start Num: 9
Candidate Starts for Aegeus_106:
(Start: 9 @62698 has 14 MA's), (17, 62755), (21, 62824), (24, 62845), (26, 62860), (29, 62884), (30, 62893), (32, 62899),

Gene: Arianna_53 Start: 39892, Stop: 40146, Start Num: 8
Candidate Starts for Arianna_53:
(Start: 8 @39892 has 4 MA's), (14, 39913), (16, 39949), (22, 40027), (24, 40042),

Gene: Asapag_98 Start: 54031, Stop: 54234, Start Num: 12
Candidate Starts for Asapag_98:
(Start: 11 @54028 has 11 MA's), (Start: 12 @54031 has 4 MA's),

Gene: BENtherdunthat_101 Start: 53776, Stop: 53982, Start Num: 11
Candidate Starts for BENtherdunthat_101:
(Start: 11 @53776 has 11 MA's), (Start: 12 @53779 has 4 MA's),

Gene: Baudelaire_106 Start: 62698, Stop: 62949, Start Num: 9
Candidate Starts for Baudelaire_106:
(Start: 9 @62698 has 14 MA's), (17, 62755), (21, 62824), (24, 62845), (26, 62860), (29, 62884), (30, 62893), (32, 62899),

Gene: Bellis_95 Start: 61235, Stop: 61477, Start Num: 9
Candidate Starts for Bellis_95:
(Start: 9 @61235 has 14 MA's), (19, 61322), (24, 61382), (32, 61427), (34, 61457),

Gene: Budski_106 Start: 55468, Stop: 55674, Start Num: 11
Candidate Starts for Budski_106:
(Start: 11 @55468 has 11 MA's), (Start: 12 @55471 has 4 MA's),

Gene: CheeseTouch_110 Start: 52893, Stop: 53096, Start Num: 12
Candidate Starts for CheeseTouch_110:
(Start: 11 @52890 has 11 MA's), (Start: 12 @52893 has 4 MA's),

Gene: ChewyVIII_33 Start: 16531, Stop: 16761, Start Num: 13
Candidate Starts for ChewyVIII_33:
(Start: 13 @16531 has 5 MA's), (18, 16600), (22, 16648), (23, 16651), (25, 16675), (30, 16720),

Gene: Clautastrophe_95 Start: 61230, Stop: 61472, Start Num: 9
Candidate Starts for Clautastrophe_95:
(Start: 9 @61230 has 14 MA's), (19, 61317), (24, 61377), (32, 61422), (34, 61452),

Gene: Colleen_53 Start: 39892, Stop: 40146, Start Num: 8
Candidate Starts for Colleen_53:
(Start: 8 @39892 has 4 MA's), (14, 39913), (16, 39949), (22, 40027), (24, 40042),

Gene: DuncansLeg_98 Start: 61421, Stop: 61663, Start Num: 9
Candidate Starts for DuncansLeg_98:
(Start: 9 @61421 has 14 MA's), (19, 61508), (24, 61568), (32, 61613),

Gene: Ellson_96 Start: 61736, Stop: 61978, Start Num: 9
Candidate Starts for Ellson_96:
(Start: 9 @61736 has 14 MA's), (19, 61823), (24, 61883), (32, 61928),

Gene: EmiRose_44 Start: 36397, Stop: 36624, Start Num: 9
Candidate Starts for EmiRose_44:
(Start: 9 @36397 has 14 MA's), (28, 36574), (33, 36598),

Gene: Farewell_94 Start: 60964, Stop: 61215, Start Num: 5
Candidate Starts for Farewell_94:
(Start: 5 @60964 has 2 MA's), (20, 61096),

Gene: Finnry_97 Start: 61583, Stop: 61825, Start Num: 9
Candidate Starts for Finnry_97:
(Start: 9 @61583 has 14 MA's), (19, 61670), (24, 61730), (32, 61775), (34, 61805),

Gene: Frickyeah_107 Start: 54302, Stop: 54508, Start Num: 11
Candidate Starts for Frickyeah_107:
(Start: 11 @54302 has 11 MA's), (Start: 12 @54305 has 4 MA's),

Gene: GAL1_81 Start: 49391, Stop: 49576, Start Num: 16
Candidate Starts for GAL1_81:
(1, 49148), (2, 49181), (3, 49280), (4, 49289), (6, 49325), (Start: 11 @49352 has 11 MA's), (16, 49391), (24, 49487), (28, 49514),

Gene: Getalong_103 Start: 55123, Stop: 55329, Start Num: 11
Candidate Starts for Getalong_103:
(Start: 11 @55123 has 11 MA's), (Start: 12 @55126 has 4 MA's),

Gene: GuyFagieri_22 Start: 11463, Stop: 11696, Start Num: 13
Candidate Starts for GuyFagieri_22:
(7, 11436), (Start: 13 @11463 has 5 MA's), (14, 11466), (21, 11577), (31, 11652),

Gene: Holliday_102 Start: 56553, Stop: 56759, Start Num: 11
Candidate Starts for Holliday_102:
(Start: 11 @56553 has 11 MA's), (Start: 12 @56556 has 4 MA's),

Gene: Horus_103 Start: 54577, Stop: 54783, Start Num: 11
Candidate Starts for Horus_103:
(Start: 11 @54577 has 11 MA's), (Start: 12 @54580 has 4 MA's),

Gene: Jobypre_98 Start: 61230, Stop: 61472, Start Num: 9
Candidate Starts for Jobypre_98:
(Start: 9 @61230 has 14 MA's), (19, 61317), (24, 61377), (32, 61422), (34, 61452),

Gene: Jubie_96 Start: 61365, Stop: 61607, Start Num: 9
Candidate Starts for Jubie_96:
(Start: 9 @61365 has 14 MA's), (19, 61452), (24, 61512), (32, 61557), (34, 61587),

Gene: Kamaru_100 Start: 52436, Stop: 52642, Start Num: 11
Candidate Starts for Kamaru_100:
(Start: 11 @52436 has 11 MA's), (Start: 12 @52439 has 4 MA's),

Gene: Kenna_98 Start: 52957, Stop: 53163, Start Num: 11
Candidate Starts for Kenna_98:
(Start: 11 @52957 has 11 MA's), (Start: 12 @52960 has 4 MA's),

Gene: Kingsolomon_95 Start: 61339, Stop: 61581, Start Num: 9
Candidate Starts for Kingsolomon_95:
(Start: 9 @61339 has 14 MA's), (19, 61426), (24, 61486), (32, 61531), (34, 61561),

Gene: Leroy_103 Start: 52772, Stop: 52978, Start Num: 11
Candidate Starts for Leroy_103:
(Start: 11 @52772 has 11 MA's), (Start: 12 @52775 has 4 MA's),

Gene: LitninMcQueen_110 Start: 56204, Stop: 56407, Start Num: 12
Candidate Starts for LitninMcQueen_110:
(Start: 11 @56201 has 11 MA's), (Start: 12 @56204 has 4 MA's),

Gene: Lumos_97 Start: 61227, Stop: 61469, Start Num: 9
Candidate Starts for Lumos_97:
(Start: 9 @61227 has 14 MA's), (19, 61314), (24, 61374), (32, 61419), (34, 61449),

Gene: Lutum_104 Start: 54276, Stop: 54482, Start Num: 11
Candidate Starts for Lutum_104:
(Start: 11 @54276 has 11 MA's), (Start: 12 @54279 has 4 MA's),

Gene: MacGully_26 Start: 11334, Stop: 11555, Start Num: 13
Candidate Starts for MacGully_26:
(10, 11325), (Start: 13 @11334 has 5 MA's), (15, 11346), (31, 11517),

Gene: Mendokysei_61 Start: 41601, Stop: 41822, Start Num: 13
Candidate Starts for Mendokysei_61:
(Start: 13 @41601 has 5 MA's),

Gene: Moostard_94 Start: 61334, Stop: 61576, Start Num: 9
Candidate Starts for Moostard_94:
(Start: 9 @61334 has 14 MA's), (19, 61421), (24, 61481), (32, 61526), (34, 61556),

Gene: MsGreen_97 Start: 61229, Stop: 61471, Start Num: 9
Candidate Starts for MsGreen_97:
(Start: 9 @61229 has 14 MA's), (19, 61316), (24, 61376), (32, 61421), (34, 61451),

Gene: Nicholas_95 Start: 61339, Stop: 61581, Start Num: 9
Candidate Starts for Nicholas_95:
(Start: 9 @61339 has 14 MA's), (19, 61426), (24, 61486), (32, 61531), (34, 61561),

Gene: PSonyx_114 Start: 60892, Stop: 60659, Start Num: 13
Candidate Starts for PSonyx_114:
(Start: 13 @60892 has 5 MA's),

Gene: Periwinkle_109 Start: 55399, Stop: 55605, Start Num: 11
Candidate Starts for Periwinkle_109:
(Start: 11 @55399 has 11 MA's), (Start: 12 @55402 has 4 MA's), (27, 55549),

Gene: Phabuloso_109 Start: 54838, Stop: 55041, Start Num: 12
Candidate Starts for Phabuloso_109:
(Start: 11 @54835 has 11 MA's), (Start: 12 @54838 has 4 MA's),

Gene: Phistory_106 Start: 52827, Stop: 53033, Start Num: 11
Candidate Starts for Phistory_106:
(Start: 11 @52827 has 11 MA's), (Start: 12 @52830 has 4 MA's),

Gene: Poushou_53 Start: 39721, Stop: 39975, Start Num: 8
Candidate Starts for Poushou_53:
(Start: 8 @39721 has 4 MA's), (14, 39742), (16, 39778), (22, 39856), (24, 39871),

Gene: Samty_96 Start: 61327, Stop: 61569, Start Num: 9

Candidate Starts for Samty_96:
(Start: 9 @61327 has 14 MA's), (19, 61414), (24, 61474), (32, 61519), (34, 61549),

Gene: Snenia_96 Start: 61231, Stop: 61473, Start Num: 9
Candidate Starts for Snenia_96:
(Start: 9 @61231 has 14 MA's), (19, 61318), (24, 61378), (32, 61423), (34, 61453),

Gene: Sparky_93 Start: 62558, Stop: 62809, Start Num: 5
Candidate Starts for Sparky_93:
(Start: 5 @62558 has 2 MA's), (20, 62690),

Gene: TouchMeNot_53 Start: 39894, Stop: 40148, Start Num: 8
Candidate Starts for TouchMeNot_53:
(Start: 8 @39894 has 4 MA's), (14, 39915), (16, 39951), (22, 40029), (24, 40044),

Gene: Whitney_104 Start: 55526, Stop: 55732, Start Num: 11
Candidate Starts for Whitney_104:
(Start: 11 @55526 has 11 MA's), (Start: 12 @55529 has 4 MA's),