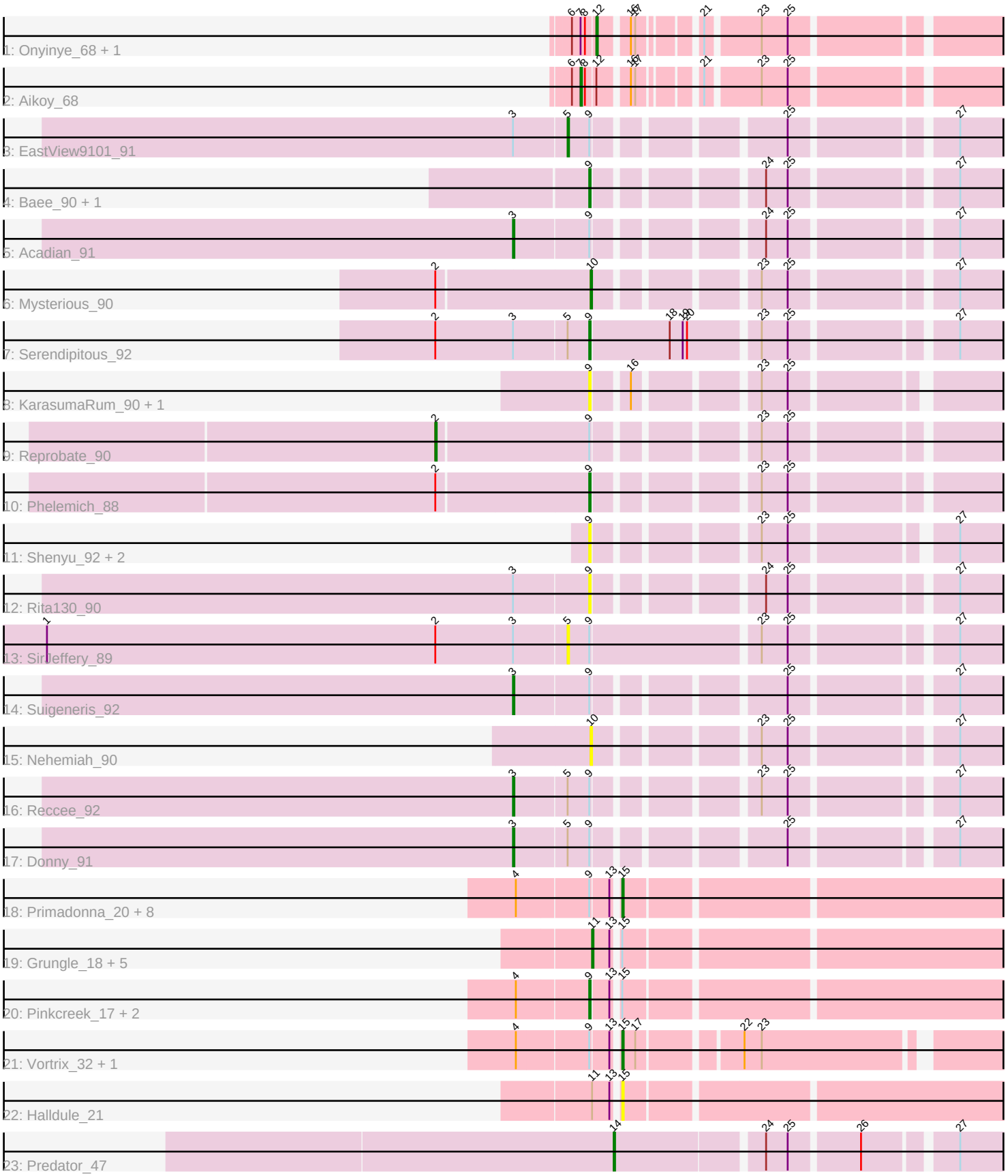
Pham 329165


1: Onyinye_68 + 1
2: Aikoy_68
3: EastView9101_91
4: Baee_90 + 1
5: Acadian_91
6: Mysterious_90
7: Serendipitous_92
8: KarasumaRum_90 + 1
9: Reprobate_90
10: Phelemich_88
11: Shenyu_92 + 2
12: Rita130_90
13: SirJeffery_89
14: Suigeneris_92
15: Nehemiah_90
16: Reccee_92
17: Donny_91
18: Primadonna_20 + 8
19: Grungle_18 + 5
20: Pinkcreek_17 + 2
21: Vortrix_32 + 1
22: Halldule_21
23: Predator_47

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 329165 Report

This analysis was run 09/05/26 on database version 662.

Pham number 329165 has 44 members, 20 are drafts.

Phages represented in each track:
• Track 1 : Onyinye_68, Leopard_67
• Track 2 : Aikoy_68
• Track 3 : EastView9101_91
• Track 4 : Baee_90, Rich_89
• Track 5 : Acadian_91
• Track 6 : Mysterious_90
• Track 7 : Serendipitous_92
• Track 8 : KarasumaRum_90, StinkyVeggy_90
• Track 9 : Reprobate_90
• Track 10 : Phelemich_88
• Track 11 : Shenyu_92, Nangang_92, DigitDog_93
• Track 12 : Rita130_90
• Track 13 : SirJeffery_89
• Track 14 : Suigeneris_92
• Track 15 : Nehemiah_90
• Track 16 : Reccee_92
• Track 17 : Donny_91
• Track 18 : Primadonna_20, Substance289_22, Fongie_24, Spec_24, DeejaClivia_21, Maturis_25, Blackdragon_20, Duckfeet_22, Belieber_21
• Track 19 : Grungle_18, Shaqnato_21, Lukilu_18, LRRHood_22, Astraea_26, Bezza_19
• Track 20 : Pinkcreek_17, Lunareta_24, Montpel_24
• Track 21 : Vortrix_32, Tonenili_30
• Track 22 : Halldule_21
• Track 23 : Predator_47

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

The start number called the most often in the published annotations is 11, it was called in 6 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Astraea_26, Bezza_19, Grungle_18, LRRHood_22, Lukilu_18, Shaqnato_21,

Genes that have the "Most Annotated" start but do not call it:
• Halldule_21,

Genes that do not have the "Most Annotated" start:
• Acadian_91, Aikoy_68, Baee_90, Belieber_21, Blackdragon_20, DeejaClivia_21, DigitDog_93, Donny_91, Duckfeet_22, EastView9101_91, Fongie_24, KarasumaRum_90, Leopard_67, Lunareta_24, Maturis_25, Montpel_24, Mysterious_90, Nangang_92, Nehemiah_90, Onyinye_68, Phelemich_88, Pinkcreek_17, Predator_47, Primadonna_20, Reccee_92, Reprobate_90, Rich_89, Rita130_90, Serendipitous_92, Shenyu_92, SirJeffery_89, Spec_24, StinkyVeggy_90, Substance289_22, Suigeneris_92, Tonenili_30, Vortrix_32,

Summary by start number:

Start 2:
• Found in 5 of 44 (11.4%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Reprobate_90 (B5),

Start 3:
• Found in 8 of 44 (18.2%) of genes in pham
• Manual Annotations of this start: 4 of 24
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Acadian_91 (B5), Donny_91 (B5), Reccee_92 (B5), Suigeneris_92 (B5),

Start 5:
• Found in 5 of 44 (11.4%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 40.0% of time when present
• Phage (with cluster) where this start called: EastView9101_91 (B5), SirJeffery_89 (B5),

Start 7:
• Found in 3 of 44 (6.8%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Aikoy_68 (AE),

Start 9:
• Found in 31 of 44 (70.5%) of genes in pham
• Manual Annotations of this start: 5 of 24
• Called 41.9% of time when present
• Phage (with cluster) where this start called: Baee_90 (B5), DigitDog_93 (B5), KarasumaRum_90 (B5), Lunareta_24 (C1), Montpel_24 (C1), Nangang_92 (B5), Phelemich_88 (B5), Pinkcreek_17 (C1), Rich_89 (B5), Rita130_90 (B5), Serendipitous_92 (B5), Shenyu_92 (B5), StinkyVeggy_90 (B5),

Start 10:
• Found in 2 of 44 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Mysterious_90 (B5), Nehemiah_90 (B5),

Start 11:
• Found in 7 of 44 (15.9%) of genes in pham
• Manual Annotations of this start: 6 of 24
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Astraea_26 (C1), Bezza_19 (C1), Grungle_18 (C1), LRRHood_22 (C1), Lukilu_18 (C1), Shaqnato_21 (C1),

Start 12:
• Found in 3 of 44 (6.8%) of genes in pham
• Manual Annotations of this start: 2 of 24
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Leopard_67 (AE), Onyinye_68 (AE),

Start 14:
• Found in 1 of 44 (2.3%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Predator_47 (H1),

Start 15:
• Found in 21 of 44 (47.7%) of genes in pham
• Manual Annotations of this start: 2 of 24
• Called 57.1% of time when present
• Phage (with cluster) where this start called: Belieber_21 (C1), Blackdragon_20 (C1), DeejaClivia_21 (C1), Duckfeet_22 (C1), Fongie_24 (C1), Halldule_21 (C1), Maturis_25 (C1), Primadonna_20 (C1), Spec_24 (C1), Substance289_22 (C1), Tonenili_30 (C1), Vortrix_32 (C1),

Summary by clusters:

There are 4 clusters represented in this pham: B5, C1, H1, AE,

Info for manual annotations of cluster AE:
•Start number 7 was manually annotated 1 time for cluster AE.
•Start number 12 was manually annotated 2 times for cluster AE.

Info for manual annotations of cluster B5:
•Start number 2 was manually annotated 1 time for cluster B5.
•Start number 3 was manually annotated 4 times for cluster B5.
•Start number 5 was manually annotated 1 time for cluster B5.
•Start number 9 was manually annotated 4 times for cluster B5.
•Start number 10 was manually annotated 1 time for cluster B5.

Info for manual annotations of cluster C1:
•Start number 9 was manually annotated 1 time for cluster C1.
•Start number 11 was manually annotated 6 times for cluster C1.
•Start number 15 was manually annotated 2 times for cluster C1.

Info for manual annotations of cluster H1:
•Start number 14 was manually annotated 1 time for cluster H1.

Gene Information:

Gene: Acadian_91 Start: 67459, Stop: 67148, Start Num: 3
Candidate Starts for Acadian_91:
(Start: 3 @67459 has 4 MA's), (Start: 9 @67408 has 5 MA's), (24, 67312), (25, 67297), (27, 67195),

Gene: Aikoy_68 Start: 49001, Stop: 49264, Start Num: 7
Candidate Starts for Aikoy_68:
(6, 48995), (Start: 7 @49001 has 1 MA's), (8, 49004), (Start: 12 @49010 has 2 MA's), (16, 49028), (17, 49031), (21, 49064), (23, 49097), (25, 49115),

Gene: Astraea_26 Start: 7926, Stop: 8225, Start Num: 11
Candidate Starts for Astraea_26:
(Start: 11 @7926 has 6 MA's), (13, 7938), (Start: 15 @7941 has 2 MA's),

Gene: Baee_90 Start: 67913, Stop: 67653, Start Num: 9
Candidate Starts for Baee_90:
(Start: 9 @67913 has 5 MA's), (24, 67817), (25, 67802), (27, 67700),

Gene: Belieber_21 Start: 6975, Stop: 7259, Start Num: 15
Candidate Starts for Belieber_21:
(4, 6912), (Start: 9 @6960 has 5 MA's), (13, 6972), (Start: 15 @6975 has 2 MA's),

Gene: Bezza_19 Start: 6839, Stop: 7138, Start Num: 11
Candidate Starts for Bezza_19:
(Start: 11 @6839 has 6 MA's), (13, 6851), (Start: 15 @6854 has 2 MA's),

Gene: Blackdragon_20 Start: 6822, Stop: 7106, Start Num: 15
Candidate Starts for Blackdragon_20:
(4, 6759), (Start: 9 @6807 has 5 MA's), (13, 6819), (Start: 15 @6822 has 2 MA's),

Gene: DeejaClivia_21 Start: 6864, Stop: 7148, Start Num: 15
Candidate Starts for DeejaClivia_21:
(4, 6801), (Start: 9 @6849 has 5 MA's), (13, 6861), (Start: 15 @6864 has 2 MA's),

Gene: DigitDog_93 Start: 67902, Stop: 67645, Start Num: 9
Candidate Starts for DigitDog_93:
(Start: 9 @67902 has 5 MA's), (23, 67809), (25, 67791), (27, 67692),

Gene: Donny_91 Start: 67286, Stop: 66975, Start Num: 3
Candidate Starts for Donny_91:
(Start: 3 @67286 has 4 MA's), (Start: 5 @67250 has 1 MA's), (Start: 9 @67235 has 5 MA's), (25, 67124), (27, 67022),

Gene: Duckfeet_22 Start: 7515, Stop: 7799, Start Num: 15
Candidate Starts for Duckfeet_22:
(4, 7452), (Start: 9 @7500 has 5 MA's), (13, 7512), (Start: 15 @7515 has 2 MA's),

Gene: EastView9101_91 Start: 67442, Stop: 67167, Start Num: 5
Candidate Starts for EastView9101_91:

(Start: 3 @67478 has 4 MA's), (Start: 5 @67442 has 1 MA's), (Start: 9 @67427 has 5 MA's), (25, 67316), (27, 67214),

Gene: Fongie_24 Start: 8332, Stop: 8616, Start Num: 15
Candidate Starts for Fongie_24:
(4, 8269), (Start: 9 @8317 has 5 MA's), (13, 8329), (Start: 15 @8332 has 2 MA's),

Gene: Grungle_18 Start: 5890, Stop: 6189, Start Num: 11
Candidate Starts for Grungle_18:
(Start: 11 @5890 has 6 MA's), (13, 5902), (Start: 15 @5905 has 2 MA's),

Gene: Halldule_21 Start: 6575, Stop: 6859, Start Num: 15
Candidate Starts for Halldule_21:
(Start: 11 @6560 has 6 MA's), (13, 6572), (Start: 15 @6575 has 2 MA's),

Gene: KarasumaRum_90 Start: 67527, Stop: 67270, Start Num: 9
Candidate Starts for KarasumaRum_90:
(Start: 9 @67527 has 5 MA's), (16, 67506), (23, 67434), (25, 67416),

Gene: LRRHood_22 Start: 8459, Stop: 8758, Start Num: 11
Candidate Starts for LRRHood_22:
(Start: 11 @8459 has 6 MA's), (13, 8471), (Start: 15 @8474 has 2 MA's),

Gene: Leopard_67 Start: 49310, Stop: 49564, Start Num: 12
Candidate Starts for Leopard_67:
(6, 49295), (Start: 7 @49301 has 1 MA's), (8, 49304), (Start: 12 @49310 has 2 MA's), (16, 49328), (17, 49331), (21, 49364), (23, 49397), (25, 49415),

Gene: Lukilu_18 Start: 6910, Stop: 7209, Start Num: 11
Candidate Starts for Lukilu_18:
(Start: 11 @6910 has 6 MA's), (13, 6922), (Start: 15 @6925 has 2 MA's),

Gene: Lunareta_24 Start: 8026, Stop: 8349, Start Num: 9
Candidate Starts for Lunareta_24:
(4, 7978), (Start: 9 @8026 has 5 MA's), (13, 8038), (Start: 15 @8041 has 2 MA's),

Gene: Maturis_25 Start: 8104, Stop: 8388, Start Num: 15
Candidate Starts for Maturis_25:
(4, 8041), (Start: 9 @8089 has 5 MA's), (13, 8101), (Start: 15 @8104 has 2 MA's),

Gene: Montpel_24 Start: 8026, Stop: 8349, Start Num: 9
Candidate Starts for Montpel_24:
(4, 7978), (Start: 9 @8026 has 5 MA's), (13, 8038), (Start: 15 @8041 has 2 MA's),

Gene: Mysterious_90 Start: 67326, Stop: 67057, Start Num: 10
Candidate Starts for Mysterious_90:
(Start: 2 @67428 has 1 MA's), (Start: 10 @67326 has 1 MA's), (23, 67233), (25, 67215), (27, 67113),

Gene: Nangang_92 Start: 67798, Stop: 67541, Start Num: 9
Candidate Starts for Nangang_92:
(Start: 9 @67798 has 5 MA's), (23, 67705), (25, 67687), (27, 67588),

Gene: Nehemiah_90 Start: 67193, Stop: 66924, Start Num: 10

Candidate Starts for Nehemiah_90:
(Start: 10 @67193 has 1 MA's), (23, 67100), (25, 67082), (27, 66980),

Gene: Onyinye_68 Start: 49177, Stop: 49431, Start Num: 12
Candidate Starts for Onyinye_68:
(6, 49162), (Start: 7 @49168 has 1 MA's), (8, 49171), (Start: 12 @49177 has 2 MA's), (16, 49195), (17, 49198), (21, 49231), (23, 49264), (25, 49282),

Gene: Phelemich_88 Start: 67232, Stop: 66972, Start Num: 9
Candidate Starts for Phelemich_88:
(Start: 2 @67334 has 1 MA's), (Start: 9 @67232 has 5 MA's), (23, 67139), (25, 67121),

Gene: Pinkcreek_17 Start: 6160, Stop: 6459, Start Num: 9
Candidate Starts for Pinkcreek_17:
(4, 6112), (Start: 9 @6160 has 5 MA's), (13, 6172), (Start: 15 @6175 has 2 MA's),

Gene: Predator_47 Start: 38369, Stop: 38629, Start Num: 14
Candidate Starts for Predator_47:
(Start: 14 @38369 has 1 MA's), (24, 38465), (25, 38480), (26, 38525), (27, 38582),

Gene: Primadonna_20 Start: 7425, Stop: 7709, Start Num: 15
Candidate Starts for Primadonna_20:
(4, 7362), (Start: 9 @7410 has 5 MA's), (13, 7422), (Start: 15 @7425 has 2 MA's),

Gene: Reccee_92 Start: 67729, Stop: 67418, Start Num: 3
Candidate Starts for Reccee_92:
(Start: 3 @67729 has 4 MA's), (Start: 5 @67693 has 1 MA's), (Start: 9 @67678 has 5 MA's), (23, 67585), (25, 67567), (27, 67465),

Gene: Reprobate_90 Start: 67339, Stop: 66977, Start Num: 2
Candidate Starts for Reprobate_90:
(Start: 2 @67339 has 1 MA's), (Start: 9 @67237 has 5 MA's), (23, 67144), (25, 67126),

Gene: Rich_89 Start: 67466, Stop: 67206, Start Num: 9
Candidate Starts for Rich_89:
(Start: 9 @67466 has 5 MA's), (24, 67370), (25, 67355), (27, 67253),

Gene: Rita130_90 Start: 67381, Stop: 67121, Start Num: 9
Candidate Starts for Rita130_90:
(Start: 3 @67432 has 4 MA's), (Start: 9 @67381 has 5 MA's), (24, 67285), (25, 67270), (27, 67168),

Gene: Serendipitous_92 Start: 67406, Stop: 67131, Start Num: 9
Candidate Starts for Serendipitous_92:
(Start: 2 @67511 has 1 MA's), (Start: 3 @67457 has 4 MA's), (Start: 5 @67421 has 1 MA's), (Start: 9 @67406 has 5 MA's), (18, 67352), (19, 67343), (20, 67340), (23, 67295), (25, 67277), (27, 67175),

Gene: Shaqnato_21 Start: 6893, Stop: 7192, Start Num: 11
Candidate Starts for Shaqnato_21:
(Start: 11 @6893 has 6 MA's), (13, 6905), (Start: 15 @6908 has 2 MA's),

Gene: Shenyu_92 Start: 67796, Stop: 67539, Start Num: 9
Candidate Starts for Shenyu_92:
(Start: 9 @67796 has 5 MA's), (23, 67703), (25, 67685), (27, 67586),

Gene: SirJeffery_89 Start: 67479, Stop: 67186, Start Num: 5
Candidate Starts for SirJeffery_89:
(1, 67839), (Start: 2 @67569 has 1 MA's), (Start: 3 @67515 has 4 MA's), (Start: 5 @67479 has 1 MA's), (Start: 9 @67464 has 5 MA's), (23, 67353), (25, 67335), (27, 67233),

Gene: Spec_24 Start: 7254, Stop: 7538, Start Num: 15
Candidate Starts for Spec_24:
(4, 7191), (Start: 9 @7239 has 5 MA's), (13, 7251), (Start: 15 @7254 has 2 MA's),

Gene: StinkyVeggy_90 Start: 67527, Stop: 67270, Start Num: 9
Candidate Starts for StinkyVeggy_90:
(Start: 9 @67527 has 5 MA's), (16, 67506), (23, 67434), (25, 67416),

Gene: Substance289_22 Start: 7254, Stop: 7538, Start Num: 15
Candidate Starts for Substance289_22:
(4, 7191), (Start: 9 @7239 has 5 MA's), (13, 7251), (Start: 15 @7254 has 2 MA's),

Gene: Suigeneris_92 Start: 67674, Stop: 67363, Start Num: 3
Candidate Starts for Suigeneris_92:
(Start: 3 @67674 has 4 MA's), (Start: 9 @67623 has 5 MA's), (25, 67512), (27, 67410),

Gene: Tonenili_30 Start: 9490, Stop: 9759, Start Num: 15
Candidate Starts for Tonenili_30:
(4, 9427), (Start: 9 @9475 has 5 MA's), (13, 9487), (Start: 15 @9490 has 2 MA's), (17, 9499), (22, 9562), (23, 9574),

Gene: Vortrix_32 Start: 9952, Stop: 10221, Start Num: 15
Candidate Starts for Vortrix_32:
(4, 9889), (Start: 9 @9937 has 5 MA's), (13, 9949), (Start: 15 @9952 has 2 MA's), (17, 9961), (22, 10024), (23, 10036),