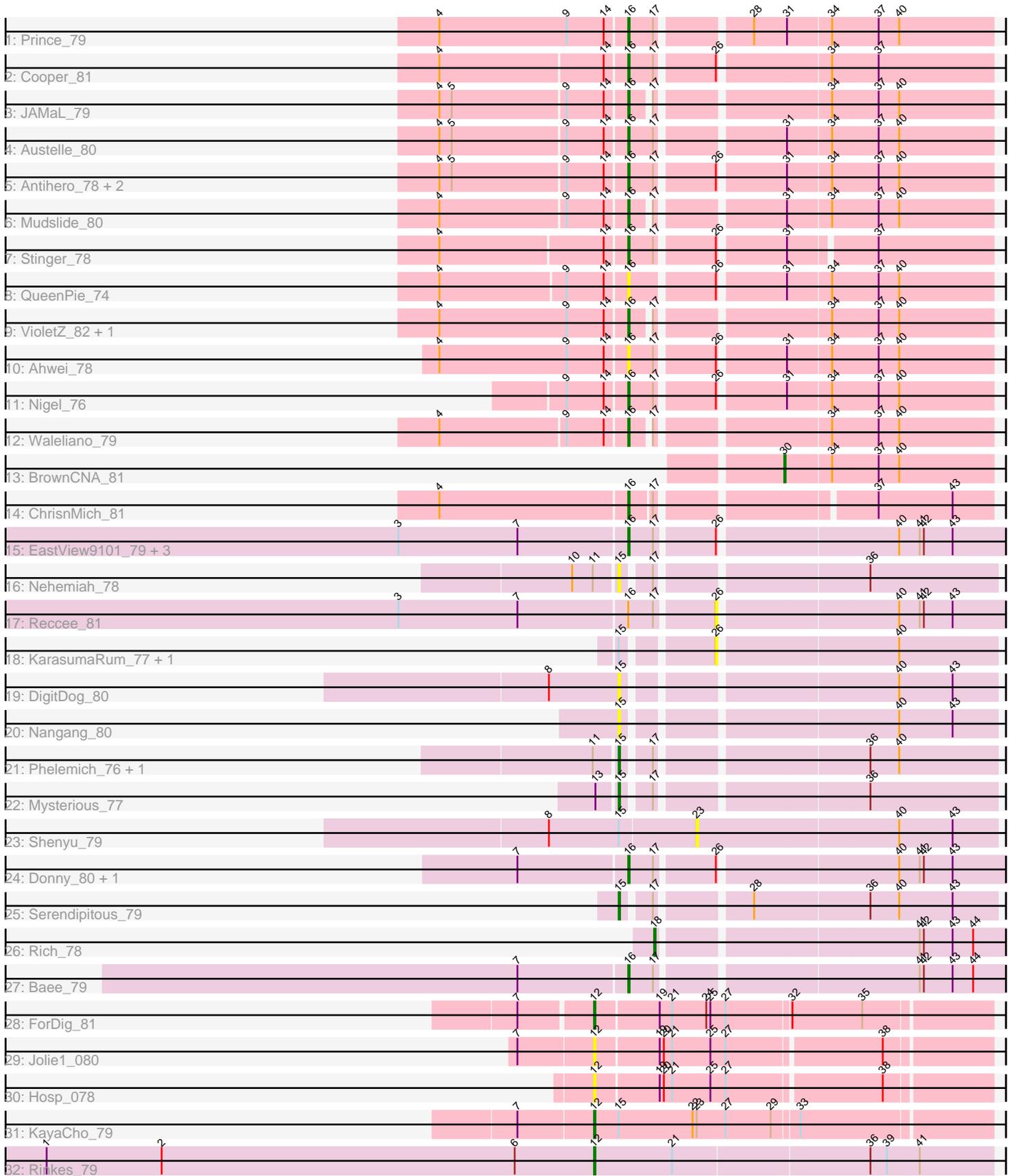# Pham 291314

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 291314 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291314 has 41 members, 15 are drafts.

Phages represented in each track:
• Track 1 : Prince_79
• Track 2 : Cooper_81
• Track 3 : JAMaL_79
• Track 4 : Austelle_80
• Track 5 : Antihero_78, GinPorsche_80, Epah_78
• Track 6 : Mudslide_80
• Track 7 : Stinger_78
• Track 8 : QueenPie_74
• Track 9 : VioletZ_82, Magpie_77
• Track 10 : Ahwei_78
• Track 11 : Nigel_76
• Track 12 : Waleliano_79
• Track 13 : BrownCNA_81
• Track 14 : ChrisnMich_81
• Track 15 : EastView9101_79, Suigeneris_81, Acadian_80, Rita130_79
• Track 16 : Nehemiah_78
• Track 17 : Reccee_81
• Track 18 : KarasumaRum_77, StinkyVeggy_77
• Track 19 : DigitDog_80
• Track 20 : Nangang_80
• Track 21 : Phelemich_76, Reprobate_78
• Track 22 : Mysterious_77
• Track 23 : Shenyu_79
• Track 24 : Donny_80, SirJeffery_78
• Track 25 : Serendipitous_79
• Track 26 : Rich_78
• Track 27 : Baee_79
• Track 28 : ForDig_81
• Track 29 : Jolie1_080
• Track 30 : Hosp_078
• Track 31 : KayaCho_79
• Track 32 : Rinkes_79

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

The start number called the most often in the published annotations is 16, it was called in 17 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acadian_80, Ahwei_78, Antihero_78, Austelle_80, Baee_79, ChrisnMich_81, Cooper_81, Donny_80, EastView9101_79, Epah_78, GinPorsche_80, JAMaL_79, Magpie_77, Mudslide_80, Nigel_76, Prince_79, QueenPie_74, Rita130_79, SirJeffery_78, Stinger_78, Suigeneris_81, VioletZ_82, Waleliano_79,

Genes that have the "Most Annotated" start but do not call it:
• Reccee_81,

Genes that do not have the "Most Annotated" start:
• BrownCNA_81, DigitDog_80, ForDig_81, Hosp_078, Jolie1_080, KarasumaRum_77, KayaCho_79, Mysterious_77, Nangang_80, Nehemiah_78, Phelemich_76, Reprobate_78, Rich_78, Rinkes_79, Serendipitous_79, Shenyu_79, StinkyVeggy_77,

Summary by start number:

Start 12:
• Found in 5 of 41 (12.2%) of genes in pham
• Manual Annotations of this start: 3 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ForDig_81 (B6), Hosp_078 (B6), Jolie1_080 (B6), KayaCho_79 (B6), Rinkes_79 (B9),

Start 15:
• Found in 11 of 41 (26.8%) of genes in pham
• Manual Annotations of this start: 4 of 26
• Called 63.6% of time when present
• Phage (with cluster) where this start called: DigitDog_80 (B5), Mysterious_77 (B5), Nangang_80 (B5), Nehemiah_78 (B5), Phelemich_76 (B5), Reprobate_78 (B5), Serendipitous_79 (B5),

Start 16:
• Found in 24 of 41 (58.5%) of genes in pham
• Manual Annotations of this start: 17 of 26
• Called 95.8% of time when present
• Phage (with cluster) where this start called: Acadian_80 (B5), Ahwei_78 (B4), Antihero_78 (B4), Austelle_80 (B4), Baee_79 (B5), ChrisnMich_81 (B4), Cooper_81 (B4), Donny_80 (B5), EastView9101_79 (B5), Epah_78 (B4), GinPorsche_80 (B4), JAMaL_79 (B4), Magpie_77 (B4), Mudslide_80 (B4), Nigel_76 (B4), Prince_79 (B4), QueenPie_74 (B4), Rita130_79 (B5), SirJeffery_78 (B5), Stinger_78 (B4), Suigeneris_81 (B5), VioletZ_82 (B4), Waleliano_79 (B4),

Start 18:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rich_78 (B5),

Start 23:
• Found in 2 of 41 (4.9%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Shenyu_79 (B5),

Start 26:
• Found in 17 of 41 (41.5%) of genes in pham
• No Manual Annotations of this start.
• Called 17.6% of time when present
• Phage (with cluster) where this start called: KarasumaRum_77 (B5), Reccee_81 (B5), StinkyVeggy_77 (B5),

Start 30:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BrownCNA_81 (B4),

Summary by clusters:

There are 4 clusters represented in this pham: B4, B5, B6, B9,

Info for manual annotations of cluster B4:
•Start number 16 was manually annotated 12 times for cluster B4.
•Start number 30 was manually annotated 1 time for cluster B4.

Info for manual annotations of cluster B5:
•Start number 15 was manually annotated 4 times for cluster B5.
•Start number 16 was manually annotated 5 times for cluster B5.
•Start number 18 was manually annotated 1 time for cluster B5.

Info for manual annotations of cluster B6:
•Start number 12 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B9:
•Start number 12 was manually annotated 1 time for cluster B9.

Gene Information:

Gene: Acadian_80 Start: 62958, Stop: 62701, Start Num: 16
Candidate Starts for Acadian_80:
(3, 63123), (7, 63036), (Start: 16 @62958 has 17 MA's), (17, 62940), (26, 62901), (40, 62778), (41, 62763), (42, 62760), (43, 62739),

Gene: Ahwei_78 Start: 63247, Stop: 62999, Start Num: 16
Candidate Starts for Ahwei_78:
(4, 63382), (9, 63289), (14, 63262), (Start: 16 @63247 has 17 MA's), (17, 63229), (26, 63190), (31, 63145), (34, 63115), (37, 63082), (40, 63067),

Gene: Antihero_78 Start: 63182, Stop: 62934, Start Num: 16

Candidate Starts for Antihero_78:
(4, 63314), (5, 63305), (9, 63224), (14, 63197), (Start: 16 @63182 has 17 MA's), (17, 63164), (26, 63125), (31, 63080), (34, 63050), (37, 63017), (40, 63002),

Gene: Austelle_80 Start: 64860, Stop: 64612, Start Num: 16
Candidate Starts for Austelle_80:
(4, 64992), (5, 64983), (9, 64902), (14, 64875), (Start: 16 @64860 has 17 MA's), (17, 64842), (31, 64758), (34, 64728), (37, 64695), (40, 64680),

Gene: Baee_79 Start: 63594, Stop: 63337, Start Num: 16
Candidate Starts for Baee_79:
(7, 63672), (Start: 16 @63594 has 17 MA's), (17, 63576), (41, 63399), (42, 63396), (43, 63375), (44, 63360),

Gene: BrownCNA_81 Start: 64179, Stop: 64030, Start Num: 30
Candidate Starts for BrownCNA_81:
(Start: 30 @64179 has 1 MA's), (34, 64146), (37, 64113), (40, 64098),

Gene: ChrisnMich_81 Start: 63195, Stop: 62956, Start Num: 16
Candidate Starts for ChrisnMich_81:
(4, 63330), (Start: 16 @63195 has 17 MA's), (17, 63180), (37, 63039), (43, 62985),

Gene: Cooper_81 Start: 63632, Stop: 63384, Start Num: 16
Candidate Starts for Cooper_81:
(4, 63764), (14, 63647), (Start: 16 @63632 has 17 MA's), (17, 63614), (26, 63575), (34, 63500), (37, 63467),

Gene: DigitDog_80 Start: 63071, Stop: 62820, Start Num: 15
Candidate Starts for DigitDog_80:
(8, 63119), (Start: 15 @63071 has 4 MA's), (40, 62891), (43, 62852),

Gene: Donny_80 Start: 62792, Stop: 62535, Start Num: 16
Candidate Starts for Donny_80:
(7, 62870), (Start: 16 @62792 has 17 MA's), (17, 62774), (26, 62735), (40, 62612), (41, 62597), (42, 62594), (43, 62573),

Gene: EastView9101_79 Start: 62702, Stop: 62445, Start Num: 16
Candidate Starts for EastView9101_79:
(3, 62867), (7, 62780), (Start: 16 @62702 has 17 MA's), (17, 62684), (26, 62645), (40, 62522), (41, 62507), (42, 62504), (43, 62483),

Gene: Epah_78 Start: 63182, Stop: 62934, Start Num: 16
Candidate Starts for Epah_78:
(4, 63314), (5, 63305), (9, 63224), (14, 63197), (Start: 16 @63182 has 17 MA's), (17, 63164), (26, 63125), (31, 63080), (34, 63050), (37, 63017), (40, 63002),

Gene: ForDig_81 Start: 63250, Stop: 62975, Start Num: 12
Candidate Starts for ForDig_81:
(7, 63301), (Start: 12 @63250 has 3 MA's), (19, 63205), (21, 63196), (24, 63172), (25, 63169), (27, 63160), (32, 63115), (35, 63064),

Gene: GinPorsche_80 Start: 63179, Stop: 62931, Start Num: 16
Candidate Starts for GinPorsche_80:

(4, 63311), (5, 63302), (9, 63221), (14, 63194), (Start: 16 @63179 has 17 MA's), (17, 63161), (26, 63122), (31, 63077), (34, 63047), (37, 63014), (40, 62999),

Gene: Hosp_078 Start: 61272, Stop: 61000, Start Num: 12
Candidate Starts for Hosp_078:
(Start: 12 @61272 has 3 MA's), (19, 61227), (20, 61224), (21, 61218), (25, 61191), (27, 61182), (38, 61074),

Gene: JAMaL_79 Start: 63728, Stop: 63486, Start Num: 16
Candidate Starts for JAMaL_79:
(4, 63860), (5, 63851), (9, 63770), (14, 63743), (Start: 16 @63728 has 17 MA's), (17, 63716), (34, 63602), (37, 63569), (40, 63554),

Gene: Jolie1_080 Start: 63299, Stop: 63027, Start Num: 12
Candidate Starts for Jolie1_080:
(7, 63353), (Start: 12 @63299 has 3 MA's), (19, 63254), (20, 63251), (21, 63245), (25, 63218), (27, 63209), (38, 63101),

Gene: KarasumaRum_77 Start: 62535, Stop: 62341, Start Num: 26
Candidate Starts for KarasumaRum_77:
(Start: 15 @62592 has 4 MA's), (26, 62535), (40, 62412),

Gene: KayaCho_79 Start: 63200, Stop: 62919, Start Num: 12
Candidate Starts for KayaCho_79:
(7, 63254), (Start: 12 @63200 has 3 MA's), (Start: 15 @63182 has 4 MA's), (22, 63128), (23, 63125), (27, 63104), (29, 63071), (33, 63053),

Gene: Magpie_77 Start: 63847, Stop: 63605, Start Num: 16
Candidate Starts for Magpie_77:
(4, 63982), (9, 63889), (14, 63862), (Start: 16 @63847 has 17 MA's), (17, 63835), (34, 63721), (37, 63688), (40, 63673),

Gene: Mudslide_80 Start: 64394, Stop: 64152, Start Num: 16
Candidate Starts for Mudslide_80:
(4, 64526), (9, 64436), (14, 64409), (Start: 16 @64394 has 17 MA's), (17, 64382), (31, 64298), (34, 64268), (37, 64235), (40, 64220),

Gene: Mysterious_77 Start: 62618, Stop: 62367, Start Num: 15
Candidate Starts for Mysterious_77:
(13, 62630), (Start: 15 @62618 has 4 MA's), (17, 62600), (36, 62459),

Gene: Nangang_80 Start: 63283, Stop: 63032, Start Num: 15
Candidate Starts for Nangang_80:
(Start: 15 @63283 has 4 MA's), (40, 63103), (43, 63064),

Gene: Nehemiah_78 Start: 62675, Stop: 62424, Start Num: 15
Candidate Starts for Nehemiah_78:
(10, 62705), (11, 62690), (Start: 15 @62675 has 4 MA's), (17, 62657), (36, 62516),

Gene: Nigel_76 Start: 62547, Stop: 62299, Start Num: 16
Candidate Starts for Nigel_76:
(9, 62589), (14, 62562), (Start: 16 @62547 has 17 MA's), (17, 62529), (26, 62490), (31, 62445), (34, 62415), (37, 62382), (40, 62367),

Gene: Phelemich_76 Start: 62744, Stop: 62493, Start Num: 15
Candidate Starts for Phelemich_76:
(11, 62759), (Start: 15 @62744 has 4 MA's), (17, 62726), (36, 62585), (40, 62564),

Gene: Prince_79 Start: 64261, Stop: 64013, Start Num: 16
Candidate Starts for Prince_79:
(4, 64396), (9, 64303), (14, 64276), (Start: 16 @64261 has 17 MA's), (17, 64243), (28, 64183), (31, 64159), (34, 64129), (37, 64096), (40, 64081),

Gene: QueenPie_74 Start: 62927, Stop: 62679, Start Num: 16
Candidate Starts for QueenPie_74:
(4, 63059), (9, 62969), (14, 62942), (Start: 16 @62927 has 17 MA's), (26, 62870), (31, 62825), (34, 62795), (37, 62762), (40, 62747),

Gene: Reccee_81 Start: 63205, Stop: 63005, Start Num: 26
Candidate Starts for Reccee_81:
(3, 63427), (7, 63340), (Start: 16 @63262 has 17 MA's), (17, 63244), (26, 63205), (40, 63082), (41, 63067), (42, 63064), (43, 63043),

Gene: Reprobate_78 Start: 62749, Stop: 62498, Start Num: 15
Candidate Starts for Reprobate_78:
(11, 62764), (Start: 15 @62749 has 4 MA's), (17, 62731), (36, 62590), (40, 62569),

Gene: Rich_78 Start: 63621, Stop: 63382, Start Num: 18
Candidate Starts for Rich_78:
(Start: 18 @63621 has 1 MA's), (41, 63444), (42, 63441), (43, 63420), (44, 63405),

Gene: Rinkes_79 Start: 64163, Stop: 63879, Start Num: 12
Candidate Starts for Rinkes_79:
(1, 64562), (2, 64478), (6, 64220), (Start: 12 @64163 has 3 MA's), (21, 64106), (36, 63968), (39, 63956), (41, 63932),

Gene: Rita130_79 Start: 62932, Stop: 62675, Start Num: 16
Candidate Starts for Rita130_79:
(3, 63097), (7, 63010), (Start: 16 @62932 has 17 MA's), (17, 62914), (26, 62875), (40, 62752), (41, 62737), (42, 62734), (43, 62713),

Gene: Serendipitous_79 Start: 62642, Stop: 62391, Start Num: 15
Candidate Starts for Serendipitous_79:
(Start: 15 @62642 has 4 MA's), (17, 62624), (28, 62564), (36, 62483), (40, 62462), (43, 62423),

Gene: Shenyu_79 Start: 63027, Stop: 62812, Start Num: 23
Candidate Starts for Shenyu_79:
(8, 63129), (Start: 15 @63081 has 4 MA's), (23, 63027), (40, 62883), (43, 62844),

Gene: SirJeffery_78 Start: 62742, Stop: 62485, Start Num: 16
Candidate Starts for SirJeffery_78:
(7, 62820), (Start: 16 @62742 has 17 MA's), (17, 62724), (26, 62685), (40, 62562), (41, 62547), (42, 62544), (43, 62523),

Gene: Stinger_78 Start: 62665, Stop: 62423, Start Num: 16
Candidate Starts for Stinger_78:

(4, 62797), (14, 62680), (Start: 16 @62665 has 17 MA's), (17, 62647), (26, 62608), (31, 62563), (37, 62506),

Gene: StinkyVeggy_77 Start: 62535, Stop: 62341, Start Num: 26
Candidate Starts for StinkyVeggy_77:
(Start: 15 @62592 has 4 MA's), (26, 62535), (40, 62412),

Gene: Suigeneris_81 Start: 63180, Stop: 62923, Start Num: 16
Candidate Starts for Suigeneris_81:
(3, 63345), (7, 63258), (Start: 16 @63180 has 17 MA's), (17, 63162), (26, 63123), (40, 63000), (41, 62985), (42, 62982), (43, 62961),

Gene: VioletZ_82 Start: 64351, Stop: 64109, Start Num: 16
Candidate Starts for VioletZ_82:
(4, 64486), (9, 64393), (14, 64366), (Start: 16 @64351 has 17 MA's), (17, 64339), (34, 64225), (37, 64192), (40, 64177),

Gene: Waleliano_79 Start: 64025, Stop: 63783, Start Num: 16
Candidate Starts for Waleliano_79:
(4, 64157), (9, 64067), (14, 64040), (Start: 16 @64025 has 17 MA's), (17, 64013), (34, 63899), (37, 63866), (40, 63851),