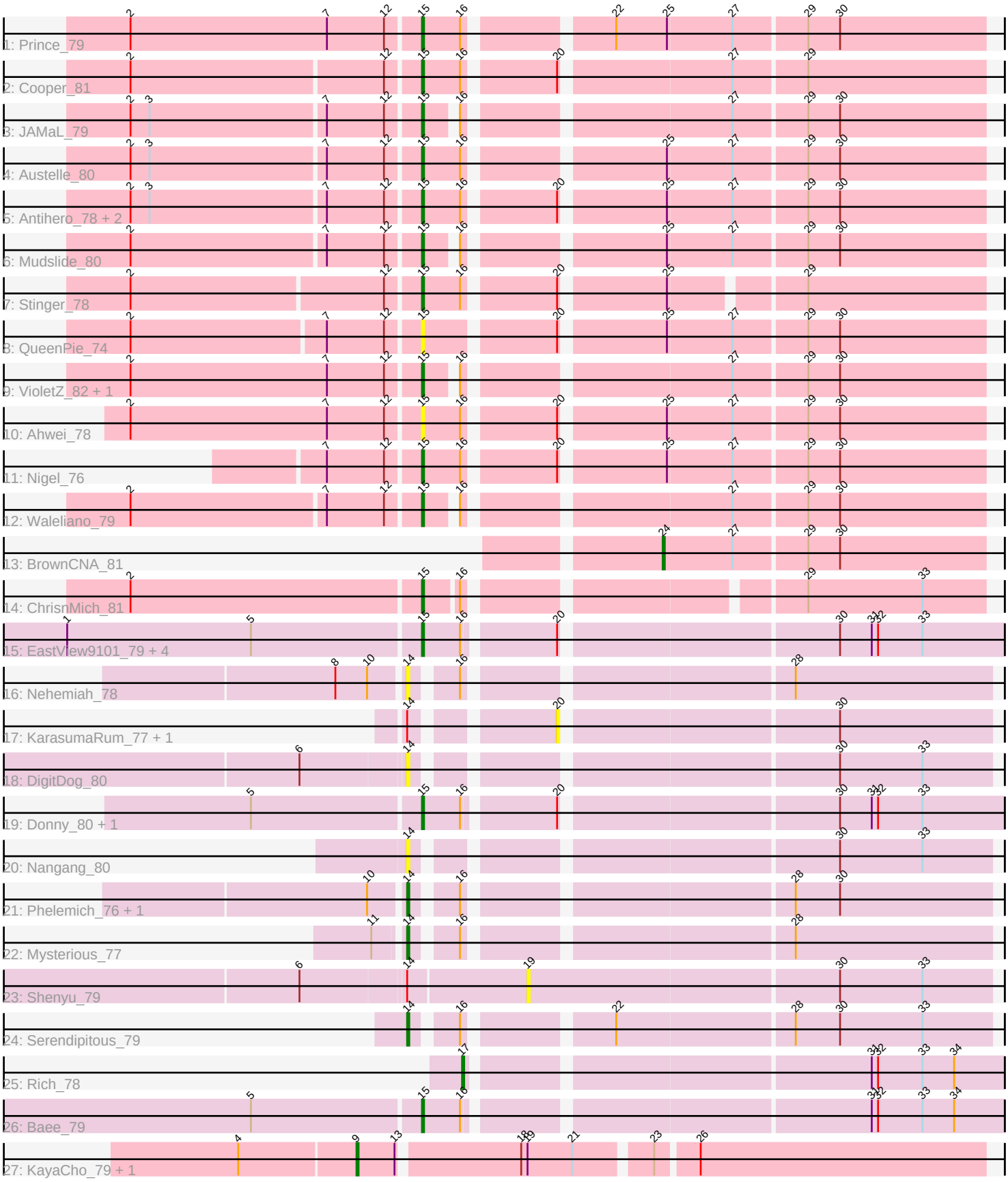
Pham 345930


1: Prince_79
2: Cooper_81
3: JAMaL_79
4: Austelle_80
5: Antihero_78 + 2
6: Mudslide_80
7: Stinger_78
8: QueenPie_74
9: VioletZ_82 + 1
10: Ahwei_78
11: Nigel_76
12: Waleliano_79
13: BrownCNA_81
14: ChrisnMich_81
15: EastView9101_79 + 4
16: Nehemiah_78
17: KarasumaRum_77 + 1
18: DigitDog_80
19: Donny_80 + 1
20: Nangang_80
21: Phelemich_76 + 1
22: Mysterious_77
23: Shenyu_79
24: Serendipitous_79
25: Rich_78
26: Baee_79
27: KayaCho_79 + 1

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 345930 Report

This analysis was run 11/14/26 on database version 672.

Pham number 345930 has 38 members, 13 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, Reccee_81, Acadian_80, Suigeneris_81, Rita130_79
- Track 16 : Nehemiah_78
- Track 17 : KarasumaRum_77, StinkyVeggy_77
- Track 18 : DigitDog_80
- Track 19 : Donny_80, SirJeffery_78
- Track 20 : Nangang_80
- Track 21 : Phelemich_76, Reprobate_78
- Track 22 : Mysterious_77
- Track 23 : Shenyu_79
- Track 24 : Serendipitous_79
- Track 25 : Rich_78
- Track 26 : Baee_79
- Track 27 : KayaCho_79, Minnow_82

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

The start number called the most often in the published annotations is 15, it was called in 18 of the 25 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, Reccee_81, Rita130_79, SirJeffery_78, Stinger_78, Suigeneris_81, VioletZ_82, Waleliano_79,

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

Genes that do not have the "Most Annotated" start:
• BrownCNA_81, DigitDog_80, KarasumaRum_77, KayaCho_79, Minnow_82, Mysterious_77, Nangang_80, Nehemiah_78, Phelemich_76, Reprobate_78, Rich_78, Serendipitous_79, Shenyu_79, StinkyVeggy_77,

Summary by start number:

Start 9:
• Found in 2 of 38 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: KayaCho_79 (B6), Minnow_82 (B6),

Start 14:
• Found in 10 of 38 (26.3%) of genes in pham
• Manual Annotations of this start: 4 of 25
• Called 70.0% 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 15:
• Found in 24 of 38 (63.2%) of genes in pham
• Manual Annotations of this start: 18 of 25
• Called 100.0% 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), Reccee_81 (B5), Rita130_79 (B5), SirJeffery_78 (B5), Stinger_78 (B4), Suigeneris_81 (B5), VioletZ_82 (B4), Waleliano_79 (B4),

Start 17:
• Found in 1 of 38 (2.6%) of genes in pham
• Manual Annotations of this start: 1 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rich_78 (B5),

Start 19:
• Found in 3 of 38 (7.9%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Shenyu_79 (B5),

Start 20:

• Found in 17 of 38 (44.7%) of genes in pham
• No Manual Annotations of this start.
• Called 11.8% of time when present
• Phage (with cluster) where this start called: KarasumaRum_77 (B5), StinkyVeggy_77 (B5),

Start 24:
• Found in 1 of 38 (2.6%) of genes in pham
• Manual Annotations of this start: 1 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BrownCNA_81 (B4),

Summary by clusters:

There are 3 clusters represented in this pham: B4, B5, B6,

Info for manual annotations of cluster B4:
•Start number 15 was manually annotated 12 times for cluster B4.
•Start number 24 was manually annotated 1 time for cluster B4.

Info for manual annotations of cluster B5:
•Start number 14 was manually annotated 4 times for cluster B5.
•Start number 15 was manually annotated 6 times for cluster B5.
•Start number 17 was manually annotated 1 time for cluster B5.

Info for manual annotations of cluster B6:
•Start number 9 was manually annotated 1 time for cluster B6.

Gene Information:

Gene: Acadian_80 Start: 62958, Stop: 62701, Start Num: 15
Candidate Starts for Acadian_80:
(1, 63123), (5, 63036), (Start: 15 @62958 has 18 MA's), (16, 62940), (20, 62901), (30, 62778), (31, 62763), (32, 62760), (33, 62739),

Gene: Ahwei_78 Start: 63247, Stop: 62999, Start Num: 15
Candidate Starts for Ahwei_78:
(2, 63382), (7, 63289), (12, 63262), (Start: 15 @63247 has 18 MA's), (16, 63229), (20, 63190), (25, 63145), (27, 63115), (29, 63082), (30, 63067),

Gene: Antihero_78 Start: 63182, Stop: 62934, Start Num: 15
Candidate Starts for Antihero_78:
(2, 63314), (3, 63305), (7, 63224), (12, 63197), (Start: 15 @63182 has 18 MA's), (16, 63164), (20, 63125), (25, 63080), (27, 63050), (29, 63017), (30, 63002),

Gene: Austelle_80 Start: 64860, Stop: 64612, Start Num: 15
Candidate Starts for Austelle_80:
(2, 64992), (3, 64983), (7, 64902), (12, 64875), (Start: 15 @64860 has 18 MA's), (16, 64842), (25, 64758), (27, 64728), (29, 64695), (30, 64680),

Gene: Baee_79 Start: 63594, Stop: 63337, Start Num: 15

Candidate Starts for Baee_79:
(5, 63672), (Start: 15 @63594 has 18 MA's), (16, 63576), (31, 63399), (32, 63396), (33, 63375), (34, 63360),

Gene: BrownCNA_81 Start: 64179, Stop: 64030, Start Num: 24
Candidate Starts for BrownCNA_81:
(Start: 24 @64179 has 1 MA's), (27, 64146), (29, 64113), (30, 64098),

Gene: ChrisnMich_81 Start: 63195, Stop: 62956, Start Num: 15
Candidate Starts for ChrisnMich_81:
(2, 63330), (Start: 15 @63195 has 18 MA's), (16, 63180), (29, 63039), (33, 62985),

Gene: Cooper_81 Start: 63632, Stop: 63384, Start Num: 15
Candidate Starts for Cooper_81:
(2, 63764), (12, 63647), (Start: 15 @63632 has 18 MA's), (16, 63614), (20, 63575), (27, 63500), (29, 63467),

Gene: DigitDog_80 Start: 63071, Stop: 62820, Start Num: 14
Candidate Starts for DigitDog_80:
(6, 63119), (Start: 14 @63071 has 4 MA's), (30, 62891), (33, 62852),

Gene: Donny_80 Start: 62792, Stop: 62535, Start Num: 15
Candidate Starts for Donny_80:
(5, 62870), (Start: 15 @62792 has 18 MA's), (16, 62774), (20, 62735), (30, 62612), (31, 62597), (32, 62594), (33, 62573),

Gene: EastView9101_79 Start: 62702, Stop: 62445, Start Num: 15
Candidate Starts for EastView9101_79:
(1, 62867), (5, 62780), (Start: 15 @62702 has 18 MA's), (16, 62684), (20, 62645), (30, 62522), (31, 62507), (32, 62504), (33, 62483),

Gene: Epah_78 Start: 63182, Stop: 62934, Start Num: 15
Candidate Starts for Epah_78:
(2, 63314), (3, 63305), (7, 63224), (12, 63197), (Start: 15 @63182 has 18 MA's), (16, 63164), (20, 63125), (25, 63080), (27, 63050), (29, 63017), (30, 63002),

Gene: GinPorsche_80 Start: 63179, Stop: 62931, Start Num: 15
Candidate Starts for GinPorsche_80:
(2, 63311), (3, 63302), (7, 63221), (12, 63194), (Start: 15 @63179 has 18 MA's), (16, 63161), (20, 63122), (25, 63077), (27, 63047), (29, 63014), (30, 62999),

Gene: JAMaL_79 Start: 63728, Stop: 63486, Start Num: 15
Candidate Starts for JAMaL_79:
(2, 63860), (3, 63851), (7, 63770), (12, 63743), (Start: 15 @63728 has 18 MA's), (16, 63716), (27, 63602), (29, 63569), (30, 63554),

Gene: KarasumaRum_77 Start: 62535, Stop: 62341, Start Num: 20
Candidate Starts for KarasumaRum_77:
(Start: 14 @62592 has 4 MA's), (20, 62535), (30, 62412),

Gene: KayaCho_79 Start: 63200, Stop: 62919, Start Num: 9
Candidate Starts for KayaCho_79:

(4, 63254), (Start: 9 @63200 has 1 MA's), (13, 63182), (18, 63128), (19, 63125), (21, 63104), (23, 63071), (26, 63053),

Gene: Magpie_77 Start: 63847, Stop: 63605, Start Num: 15
Candidate Starts for Magpie_77:
(2, 63982), (7, 63889), (12, 63862), (Start: 15 @63847 has 18 MA's), (16, 63835), (27, 63721), (29, 63688), (30, 63673),

Gene: Minnow_82 Start: 63409, Stop: 63128, Start Num: 9
Candidate Starts for Minnow_82:
(4, 63463), (Start: 9 @63409 has 1 MA's), (13, 63391), (18, 63337), (19, 63334), (21, 63313), (23, 63280), (26, 63262),

Gene: Mudslide_80 Start: 64394, Stop: 64152, Start Num: 15
Candidate Starts for Mudslide_80:
(2, 64526), (7, 64436), (12, 64409), (Start: 15 @64394 has 18 MA's), (16, 64382), (25, 64298), (27, 64268), (29, 64235), (30, 64220),

Gene: Mysterious_77 Start: 62618, Stop: 62367, Start Num: 14
Candidate Starts for Mysterious_77:
(11, 62630), (Start: 14 @62618 has 4 MA's), (16, 62600), (28, 62459),

Gene: Nangang_80 Start: 63283, Stop: 63032, Start Num: 14
Candidate Starts for Nangang_80:
(Start: 14 @63283 has 4 MA's), (30, 63103), (33, 63064),

Gene: Nehemiah_78 Start: 62675, Stop: 62424, Start Num: 14
Candidate Starts for Nehemiah_78:
(8, 62705), (10, 62690), (Start: 14 @62675 has 4 MA's), (16, 62657), (28, 62516),

Gene: Nigel_76 Start: 62547, Stop: 62299, Start Num: 15
Candidate Starts for Nigel_76:
(7, 62589), (12, 62562), (Start: 15 @62547 has 18 MA's), (16, 62529), (20, 62490), (25, 62445), (27, 62415), (29, 62382), (30, 62367),

Gene: Phelemich_76 Start: 62744, Stop: 62493, Start Num: 14
Candidate Starts for Phelemich_76:
(10, 62759), (Start: 14 @62744 has 4 MA's), (16, 62726), (28, 62585), (30, 62564),

Gene: Prince_79 Start: 64261, Stop: 64013, Start Num: 15
Candidate Starts for Prince_79:
(2, 64396), (7, 64303), (12, 64276), (Start: 15 @64261 has 18 MA's), (16, 64243), (22, 64183), (25, 64159), (27, 64129), (29, 64096), (30, 64081),

Gene: QueenPie_74 Start: 62927, Stop: 62679, Start Num: 15
Candidate Starts for QueenPie_74:
(2, 63059), (7, 62969), (12, 62942), (Start: 15 @62927 has 18 MA's), (20, 62870), (25, 62825), (27, 62795), (29, 62762), (30, 62747),

Gene: Reccee_81 Start: 63262, Stop: 63005, Start Num: 15
Candidate Starts for Reccee_81:
(1, 63427), (5, 63340), (Start: 15 @63262 has 18 MA's), (16, 63244), (20, 63205), (30, 63082), (31, 63067), (32, 63064), (33, 63043),

Gene: Reprobate_78 Start: 62749, Stop: 62498, Start Num: 14
Candidate Starts for Reprobate_78:
(10, 62764), (Start: 14 @62749 has 4 MA's), (16, 62731), (28, 62590), (30, 62569),

Gene: Rich_78 Start: 63621, Stop: 63382, Start Num: 17
Candidate Starts for Rich_78:
(Start: 17 @63621 has 1 MA's), (31, 63444), (32, 63441), (33, 63420), (34, 63405),

Gene: Rita130_79 Start: 62932, Stop: 62675, Start Num: 15
Candidate Starts for Rita130_79:
(1, 63097), (5, 63010), (Start: 15 @62932 has 18 MA's), (16, 62914), (20, 62875), (30, 62752), (31, 62737), (32, 62734), (33, 62713),

Gene: Serendipitous_79 Start: 62642, Stop: 62391, Start Num: 14
Candidate Starts for Serendipitous_79:
(Start: 14 @62642 has 4 MA's), (16, 62624), (22, 62564), (28, 62483), (30, 62462), (33, 62423),

Gene: Shenyu_79 Start: 63027, Stop: 62812, Start Num: 19
Candidate Starts for Shenyu_79:
(6, 63129), (Start: 14 @63081 has 4 MA's), (19, 63027), (30, 62883), (33, 62844),

Gene: SirJeffery_78 Start: 62742, Stop: 62485, Start Num: 15
Candidate Starts for SirJeffery_78:
(5, 62820), (Start: 15 @62742 has 18 MA's), (16, 62724), (20, 62685), (30, 62562), (31, 62547), (32, 62544), (33, 62523),

Gene: Stinger_78 Start: 62665, Stop: 62423, Start Num: 15
Candidate Starts for Stinger_78:
(2, 62797), (12, 62680), (Start: 15 @62665 has 18 MA's), (16, 62647), (20, 62608), (25, 62563), (29, 62506),

Gene: StinkyVeggy_77 Start: 62535, Stop: 62341, Start Num: 20
Candidate Starts for StinkyVeggy_77:
(Start: 14 @62592 has 4 MA's), (20, 62535), (30, 62412),

Gene: Suigeneris_81 Start: 63180, Stop: 62923, Start Num: 15
Candidate Starts for Suigeneris_81:
(1, 63345), (5, 63258), (Start: 15 @63180 has 18 MA's), (16, 63162), (20, 63123), (30, 63000), (31, 62985), (32, 62982), (33, 62961),

Gene: VioletZ_82 Start: 64351, Stop: 64109, Start Num: 15
Candidate Starts for VioletZ_82:
(2, 64486), (7, 64393), (12, 64366), (Start: 15 @64351 has 18 MA's), (16, 64339), (27, 64225), (29, 64192), (30, 64177),

Gene: Waleliano_79 Start: 64025, Stop: 63783, Start Num: 15
Candidate Starts for Waleliano_79:
(2, 64157), (7, 64067), (12, 64040), (Start: 15 @64025 has 18 MA's), (16, 64013), (27, 63899), (29, 63866), (30, 63851),