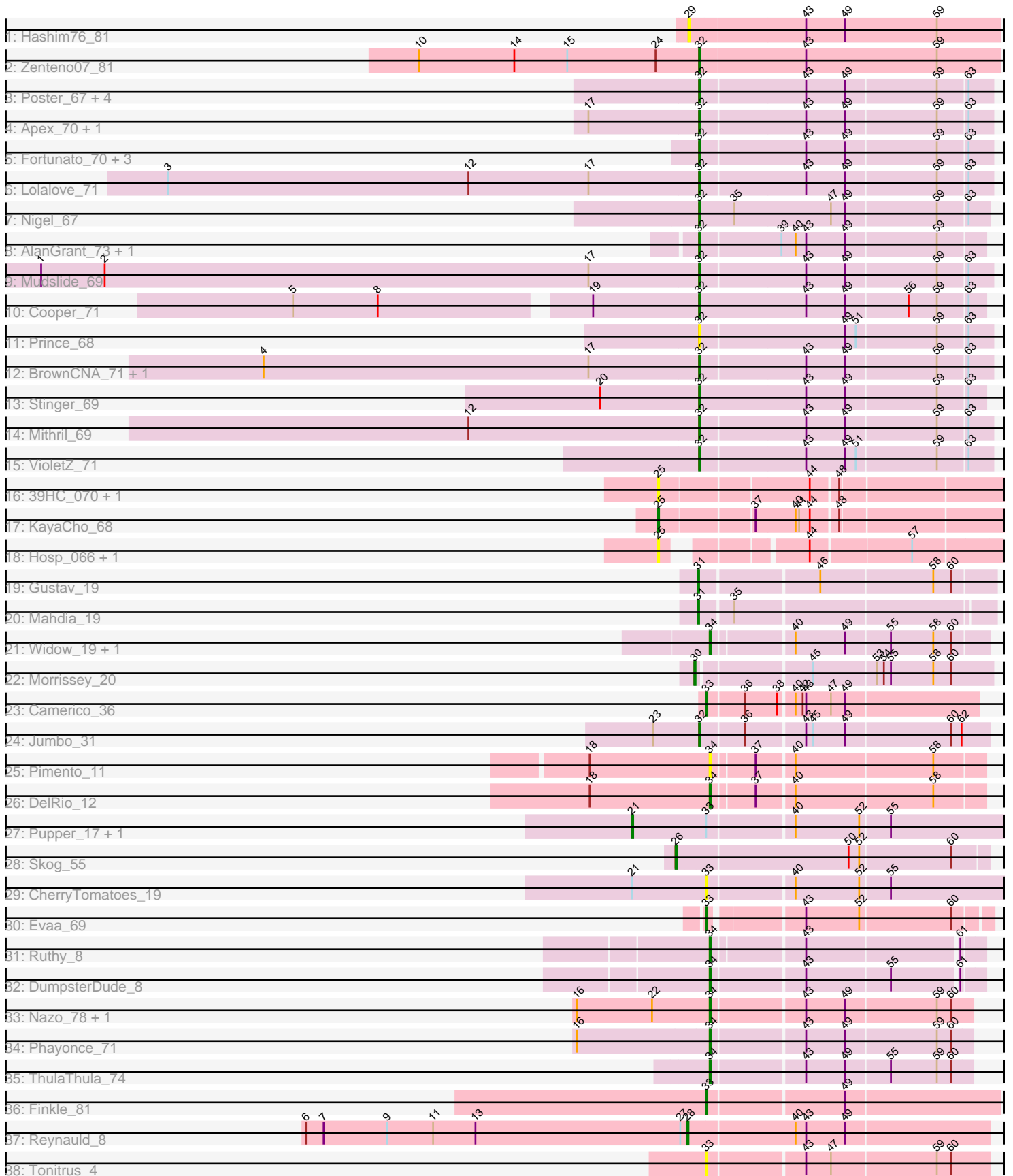


Pham 163653



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 163653 Report

This analysis was run 05/04/24 on database version 560.

Pham number 163653 has 53 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Hashim76_81
- Track 2 : Zenteno07_81
- Track 3 : Poster_67, Nanao_68, ChrisnMich_69, JAMaL_69, BobbyK_70
- Track 4 : Apex_70, Austelle_69
- Track 5 : Fortunato_70, Magpie_67, JaguarMi_70, RawrgerThat_70
- Track 6 : Lolalove_71
- Track 7 : Nigel_67
- Track 8 : AlanGrant_73, Vincenzo_72
- Track 9 : Mudslide_69
- Track 10 : Cooper_71
- Track 11 : Prince_68
- Track 12 : BrownCNA_71, Waleliano_69
- Track 13 : Stinger_69
- Track 14 : Mithril_69
- Track 15 : VioletZ_71
- Track 16 : 39HC_070, 40BC_070
- Track 17 : KayaCho_68
- Track 18 : Hosp_066, Jolie1_068
- Track 19 : Gustav_19
- Track 20 : Mahdia_19
- Track 21 : Widow_19, Puppies_19
- Track 22 : Morrissey_20
- Track 23 : Camerico_36
- Track 24 : Jumbo_31
- Track 25 : Pimento_11
- Track 26 : DelRio_12
- Track 27 : Pupper_17, SCentae_17
- Track 28 : Skog_55
- Track 29 : CherryTomatoes_19
- Track 30 : Evaa_69
- Track 31 : Ruthy_8
- Track 32 : DumpsterDude_8
- Track 33 : Nazo_78, BigNuz_77
- Track 34 : Phayonce_71
- Track 35 : ThulaThula_74
- Track 36 : Finkle_81
- Track 37 : Reynauld_8

- Track 38 : Tonitrus_4

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

The start number called the most often in the published annotations is 32, it was called in 21 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlanGrant_73, Apex_70, Austelle_69, BobbyK_70, BrownCNA_71, ChrisnMich_69, Cooper_71, Fortunato_70, JAMaL_69, JaguarMi_70, Jumbo_31, Lolalove_71, Magpie_67, Mithril_69, Mudslide_69, Nanao_68, Nigel_67, Poster_67, Prince_68, RawrgerThat_70, Stinger_69, Vincenzo_72, VioletZ_71, Waleliano_69, Zenteno07_81,

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

-

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

- 39HC_070, 40BC_070, BigNuz_77, Camerico_36, CherryTomatoes_19, DelRio_12, DumpsterDude_8, Evaa_69, Finkle_81, Gustav_19, Hashim76_81, Hosp_066, Jolie1_068, KayaCho_68, Mahdia_19, Morrissey_20, Nazo_78, Phayonce_71, Pimento_11, Pupper_17, Puppies_19, Reynauld_8, Ruthy_8, SCentae_17, Skog_55, ThulaThula_74, Tonitrus_4, Widow_19,

Summary by start number:

Start 21:

- Found in 3 of 53 (5.7%) of genes in pham
- Manual Annotations of this start: 2 of 41
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Pupper_17 (DO), SCentae_17 (DO),

Start 25:

- Found in 5 of 53 (9.4%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 39HC_070 (B6), 40BC_070 (B6), Hosp_066 (B6), Jolie1_068 (B6), KayaCho_68 (B6),

Start 26:

- Found in 1 of 53 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Skog_55 (DO),

Start 28:

- Found in 1 of 53 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Reynauld_8 (singleton),

Start 29:

- Found in 1 of 53 (1.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hashim76_81 (B13),

Start 30:

- Found in 1 of 53 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Morrissey_20 (CD),

Start 31:

- Found in 2 of 53 (3.8%) of genes in pham
- Manual Annotations of this start: 2 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gustav_19 (CD), Mahdia_19 (CD),

Start 32:

- Found in 25 of 53 (47.2%) of genes in pham
- Manual Annotations of this start: 21 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlanGrant_73 (B4), Apex_70 (B4), Austelle_69 (B4), BobbyK_70 (B4), BrownCNA_71 (B4), ChrisnMich_69 (B4), Cooper_71 (B4), Fortunato_70 (B4), JAMaL_69 (B4), JaguarMi_70 (B4), Jumbo_31 (DF3), Lolalove_71 (B4), Magpie_67 (B4), Mithril_69 (B4), Mudslide_69 (B4), Nanao_68 (B4), Nigel_67 (B4), Poster_67 (B4), Prince_68 (B4), RawrgerThat_70 (B4), Stinger_69 (B4), Vincenzo_72 (B4), VioletZ_71 (B4), Waleliano_69 (B4), Zenteno07_81 (B13),

Start 33:

- Found in 7 of 53 (13.2%) of genes in pham
- Manual Annotations of this start: 3 of 41
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Camerico_36 (DF), CherryTomatoes_19 (DO), Evaa_69 (DR), Finkle_81 (singleton), Tonitrus_4 (singleton),

Start 34:

- Found in 10 of 53 (18.9%) of genes in pham
- Manual Annotations of this start: 9 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigNuz_77 (P4), DelRio_12 (DI), DumpsterDude_8 (DW), Nazo_78 (P4), Phayonce_71 (P5), Pimento_11 (DI), Puppies_19 (CD), Ruthy_8 (DW), ThulaThula_74 (P5), Widow_19 (CD),

Summary by clusters:

There are 13 clusters represented in this pham: DO, singleton, P4, DI, DF, P5, DF3, CD, B4, B6, B13, DW, DR,

Info for manual annotations of cluster B13:

- Start number 32 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B4:

- Start number 32 was manually annotated 19 times for cluster B4.

Info for manual annotations of cluster B6:

- Start number 25 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster CD:

- Start number 30 was manually annotated 1 time for cluster CD.
- Start number 31 was manually annotated 2 times for cluster CD.
- Start number 34 was manually annotated 2 times for cluster CD.

Info for manual annotations of cluster DF:

- Start number 33 was manually annotated 1 time for cluster DF.

Info for manual annotations of cluster DF3:

- Start number 32 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DI:

- Start number 34 was manually annotated 1 time for cluster DI.

Info for manual annotations of cluster DO:

- Start number 21 was manually annotated 2 times for cluster DO.
- Start number 26 was manually annotated 1 time for cluster DO.

Info for manual annotations of cluster DR:

- Start number 33 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster DW:

- Start number 34 was manually annotated 2 times for cluster DW.

Info for manual annotations of cluster P4:

- Start number 34 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:

- Start number 34 was manually annotated 2 times for cluster P5.

Gene Information:

Gene: 39HC_070 Start: 59406, Stop: 59684, Start Num: 25

Candidate Starts for 39HC_070:

(Start: 25 @59406 has 1 MA's), (44, 59526), (48, 59547),

Gene: 40BC_070 Start: 59406, Stop: 59684, Start Num: 25

Candidate Starts for 40BC_070:

(Start: 25 @59406 has 1 MA's), (44, 59526), (48, 59547),

Gene: AlanGrant_73 Start: 61944, Stop: 62177, Start Num: 32

Candidate Starts for AlanGrant_73:

(Start: 32 @61944 has 21 MA's), (39, 62010), (40, 62022), (43, 62031), (49, 62064), (59, 62139),

Gene: Apex_70 Start: 60745, Stop: 60984, Start Num: 32
Candidate Starts for Apex_70:
(17, 60652), (Start: 32 @60745 has 21 MA's), (43, 60832), (49, 60865), (59, 60940), (63, 60964),

Gene: Austelle_69 Start: 61262, Stop: 61501, Start Num: 32
Candidate Starts for Austelle_69:
(17, 61169), (Start: 32 @61262 has 21 MA's), (43, 61349), (49, 61382), (59, 61457), (63, 61481),

Gene: BigNuz_77 Start: 46845, Stop: 47057, Start Num: 34
Candidate Starts for BigNuz_77:
(16, 46734), (22, 46797), (Start: 34 @46845 has 9 MA's), (43, 46920), (49, 46953), (59, 47028), (60, 47040),

Gene: BobbyK_70 Start: 60522, Stop: 60761, Start Num: 32
Candidate Starts for BobbyK_70:
(Start: 32 @60522 has 21 MA's), (43, 60609), (49, 60642), (59, 60717), (63, 60741),

Gene: BrownCNA_71 Start: 60896, Stop: 61135, Start Num: 32
Candidate Starts for BrownCNA_71:
(4, 60527), (17, 60803), (Start: 32 @60896 has 21 MA's), (43, 60983), (49, 61016), (59, 61091), (63, 61115),

Gene: Camerico_36 Start: 41696, Stop: 41917, Start Num: 33
Candidate Starts for Camerico_36:
(Start: 33 @41696 has 3 MA's), (36, 41726), (38, 41753), (40, 41765), (42, 41771), (43, 41774), (47, 41795), (49, 41807),

Gene: CherryTomatoes_19 Start: 5556, Stop: 5834, Start Num: 33
Candidate Starts for CherryTomatoes_19:
(Start: 21 @5493 has 2 MA's), (Start: 33 @5556 has 3 MA's), (40, 5625), (52, 5679), (55, 5703),

Gene: ChrisnMich_69 Start: 59624, Stop: 59863, Start Num: 32
Candidate Starts for ChrisnMich_69:
(Start: 32 @59624 has 21 MA's), (43, 59711), (49, 59744), (59, 59819), (63, 59843),

Gene: Cooper_71 Start: 60295, Stop: 60531, Start Num: 32
Candidate Starts for Cooper_71:
(5, 59968), (8, 60040), (19, 60205), (Start: 32 @60295 has 21 MA's), (43, 60385), (49, 60418), (56, 60469), (59, 60493), (63, 60517),

Gene: DelRio_12 Start: 8531, Stop: 8749, Start Num: 34
Candidate Starts for DelRio_12:
(18, 8429), (Start: 34 @8531 has 9 MA's), (37, 8564), (40, 8594), (58, 8708),

Gene: DumpsterDude_8 Start: 6756, Stop: 6971, Start Num: 34
Candidate Starts for DumpsterDude_8:
(Start: 34 @6756 has 9 MA's), (43, 6831), (55, 6900), (61, 6954),

Gene: Evaa_69 Start: 52488, Stop: 52709, Start Num: 33
Candidate Starts for Evaa_69:
(Start: 33 @52488 has 3 MA's), (43, 52560), (52, 52605), (60, 52680),

Gene: Finkle_81 Start: 46764, Stop: 47003, Start Num: 33

Candidate Starts for Finkle_81:
(Start: 33 @46764 has 3 MA's), (49, 46875),

Gene: Fortunato_70 Start: 60674, Stop: 60913, Start Num: 32
Candidate Starts for Fortunato_70:
(Start: 32 @60674 has 21 MA's), (43, 60761), (49, 60794), (59, 60869), (63, 60893),

Gene: Gustav_19 Start: 16757, Stop: 16996, Start Num: 31
Candidate Starts for Gustav_19:
(Start: 31 @16757 has 2 MA's), (46, 16853), (58, 16946), (60, 16961),

Gene: Hashim76_81 Start: 61848, Stop: 62108, Start Num: 29
Candidate Starts for Hashim76_81:
(29, 61848), (43, 61944), (49, 61977), (59, 62055),

Gene: Hosp_066 Start: 57234, Stop: 57482, Start Num: 25
Candidate Starts for Hosp_066:
(Start: 25 @57234 has 1 MA's), (44, 57330), (57, 57411),

Gene: JAMaL_69 Start: 60649, Stop: 60888, Start Num: 32
Candidate Starts for JAMaL_69:
(Start: 32 @60649 has 21 MA's), (43, 60736), (49, 60769), (59, 60844), (63, 60868),

Gene: JaguarMi_70 Start: 61911, Stop: 62150, Start Num: 32
Candidate Starts for JaguarMi_70:
(Start: 32 @61911 has 21 MA's), (43, 61998), (49, 62031), (59, 62106), (63, 62130),

Gene: Jolie1_068 Start: 59362, Stop: 59610, Start Num: 25
Candidate Starts for Jolie1_068:
(Start: 25 @59362 has 1 MA's), (44, 59458), (57, 59539),

Gene: Jumbo_31 Start: 39920, Stop: 40156, Start Num: 32
Candidate Starts for Jumbo_31:
(23, 39881), (Start: 32 @39920 has 21 MA's), (36, 39956), (43, 40004), (45, 40010), (49, 40037), (60, 40124), (62, 40133),

Gene: KayaCho_68 Start: 59314, Stop: 59592, Start Num: 25
Candidate Starts for KayaCho_68:
(Start: 25 @59314 has 1 MA's), (37, 59389), (40, 59422), (41, 59425), (44, 59434), (48, 59455),

Gene: Lolalove_71 Start: 60827, Stop: 61066, Start Num: 32
Candidate Starts for Lolalove_71:
(3, 60377), (12, 60632), (17, 60734), (Start: 32 @60827 has 21 MA's), (43, 60914), (49, 60947), (59, 61022), (63, 61046),

Gene: Magpie_67 Start: 60514, Stop: 60753, Start Num: 32
Candidate Starts for Magpie_67:
(Start: 32 @60514 has 21 MA's), (43, 60601), (49, 60634), (59, 60709), (63, 60733),

Gene: Mahdia_19 Start: 16436, Stop: 16672, Start Num: 31
Candidate Starts for Mahdia_19:
(Start: 31 @16436 has 2 MA's), (35, 16463),

Gene: Mithril_69 Start: 60826, Stop: 61065, Start Num: 32

Candidate Starts for Mithril_69:

(12, 60631), (Start: 32 @60826 has 21 MA's), (43, 60913), (49, 60946), (59, 61021), (63, 61045),

Gene: Morrissey_20 Start: 17653, Stop: 17892, Start Num: 30

Candidate Starts for Morrissey_20:

(Start: 30 @17653 has 1 MA's), (45, 17743), (53, 17794), (54, 17800), (55, 17806), (58, 17842), (60, 17857),

Gene: Mudslide_69 Start: 60847, Stop: 61086, Start Num: 32

Candidate Starts for Mudslide_69:

(1, 60289), (2, 60343), (17, 60754), (Start: 32 @60847 has 21 MA's), (43, 60934), (49, 60967), (59, 61042), (63, 61066),

Gene: Nanao_68 Start: 59645, Stop: 59884, Start Num: 32

Candidate Starts for Nanao_68:

(Start: 32 @59645 has 21 MA's), (43, 59732), (49, 59765), (59, 59840), (63, 59864),

Gene: Nazo_78 Start: 46731, Stop: 46943, Start Num: 34

Candidate Starts for Nazo_78:

(16, 46620), (22, 46683), (Start: 34 @46731 has 9 MA's), (43, 46806), (49, 46839), (59, 46914), (60, 46926),

Gene: Nigel_67 Start: 59465, Stop: 59704, Start Num: 32

Candidate Starts for Nigel_67:

(Start: 32 @59465 has 21 MA's), (35, 59495), (47, 59576), (49, 59588), (59, 59663), (63, 59687),

Gene: Phayonce_71 Start: 46893, Stop: 47105, Start Num: 34

Candidate Starts for Phayonce_71:

(16, 46782), (Start: 34 @46893 has 9 MA's), (43, 46968), (49, 47001), (59, 47076), (60, 47088),

Gene: Pimento_11 Start: 8225, Stop: 8443, Start Num: 34

Candidate Starts for Pimento_11:

(18, 8123), (Start: 34 @8225 has 9 MA's), (37, 8258), (40, 8288), (58, 8402),

Gene: Poster_67 Start: 59646, Stop: 59885, Start Num: 32

Candidate Starts for Poster_67:

(Start: 32 @59646 has 21 MA's), (43, 59733), (49, 59766), (59, 59841), (63, 59865),

Gene: Prince_68 Start: 60748, Stop: 60987, Start Num: 32

Candidate Starts for Prince_68:

(Start: 32 @60748 has 21 MA's), (49, 60868), (51, 60877), (59, 60943), (63, 60967),

Gene: Pupper_17 Start: 5266, Stop: 5607, Start Num: 21

Candidate Starts for Pupper_17:

(Start: 21 @5266 has 2 MA's), (Start: 33 @5329 has 3 MA's), (40, 5398), (52, 5452), (55, 5476),

Gene: Puppies_19 Start: 16767, Stop: 16988, Start Num: 34

Candidate Starts for Puppies_19:

(Start: 34 @16767 has 9 MA's), (40, 16830), (49, 16872), (55, 16908), (58, 16944), (60, 16959),

Gene: RawrgerThat_70 Start: 60652, Stop: 60891, Start Num: 32

Candidate Starts for RawrgerThat_70:

(Start: 32 @60652 has 21 MA's), (43, 60739), (49, 60772), (59, 60847), (63, 60871),

Gene: Reynauld_8 Start: 5314, Stop: 5066, Start Num: 28

Candidate Starts for Reynauld_8:

(6, 5638), (7, 5623), (9, 5569), (11, 5530), (13, 5494), (27, 5320), (Start: 28 @5314 has 1 MA's), (40, 5227), (43, 5218), (49, 5185),

Gene: Ruthy_8 Start: 6830, Stop: 7042, Start Num: 34

Candidate Starts for Ruthy_8:

(Start: 34 @6830 has 9 MA's), (43, 6902), (61, 7025),

Gene: SCentae_17 Start: 5265, Stop: 5606, Start Num: 21

Candidate Starts for SCentae_17:

(Start: 21 @5265 has 2 MA's), (Start: 33 @5328 has 3 MA's), (40, 5397), (52, 5451), (55, 5475),

Gene: Skog_55 Start: 23233, Stop: 23487, Start Num: 26

Candidate Starts for Skog_55:

(Start: 26 @23233 has 1 MA's), (50, 23374), (52, 23383), (60, 23458),

Gene: Stinger_69 Start: 59592, Stop: 59828, Start Num: 32

Candidate Starts for Stinger_69:

(20, 59508), (Start: 32 @59592 has 21 MA's), (43, 59682), (49, 59715), (59, 59790), (63, 59814),

Gene: ThulaThula_74 Start: 48102, Stop: 48314, Start Num: 34

Candidate Starts for ThulaThula_74:

(Start: 34 @48102 has 9 MA's), (43, 48177), (49, 48210), (55, 48246), (59, 48285), (60, 48297),

Gene: Tonitrus_4 Start: 2043, Stop: 2273, Start Num: 33

Candidate Starts for Tonitrus_4:

(Start: 33 @2043 has 3 MA's), (43, 2121), (47, 2142), (59, 2229), (60, 2241),

Gene: Vincenzo_72 Start: 61974, Stop: 62207, Start Num: 32

Candidate Starts for Vincenzo_72:

(Start: 32 @61974 has 21 MA's), (39, 62040), (40, 62052), (43, 62061), (49, 62094), (59, 62169),

Gene: VioletZ_71 Start: 60742, Stop: 60981, Start Num: 32

Candidate Starts for VioletZ_71:

(Start: 32 @60742 has 21 MA's), (43, 60829), (49, 60862), (51, 60871), (59, 60937), (63, 60961),

Gene: Waleliano_69 Start: 60649, Stop: 60888, Start Num: 32

Candidate Starts for Waleliano_69:

(4, 60280), (17, 60556), (Start: 32 @60649 has 21 MA's), (43, 60736), (49, 60769), (59, 60844), (63, 60868),

Gene: Widow_19 Start: 16758, Stop: 16979, Start Num: 34

Candidate Starts for Widow_19:

(Start: 34 @16758 has 9 MA's), (40, 16821), (49, 16863), (55, 16899), (58, 16935), (60, 16950),

Gene: Zenteno07_81 Start: 61739, Stop: 61990, Start Num: 32

Candidate Starts for Zenteno07_81:

(10, 61502), (14, 61583), (15, 61628), (24, 61703), (Start: 32 @61739 has 21 MA's), (43, 61826), (59, 61937),