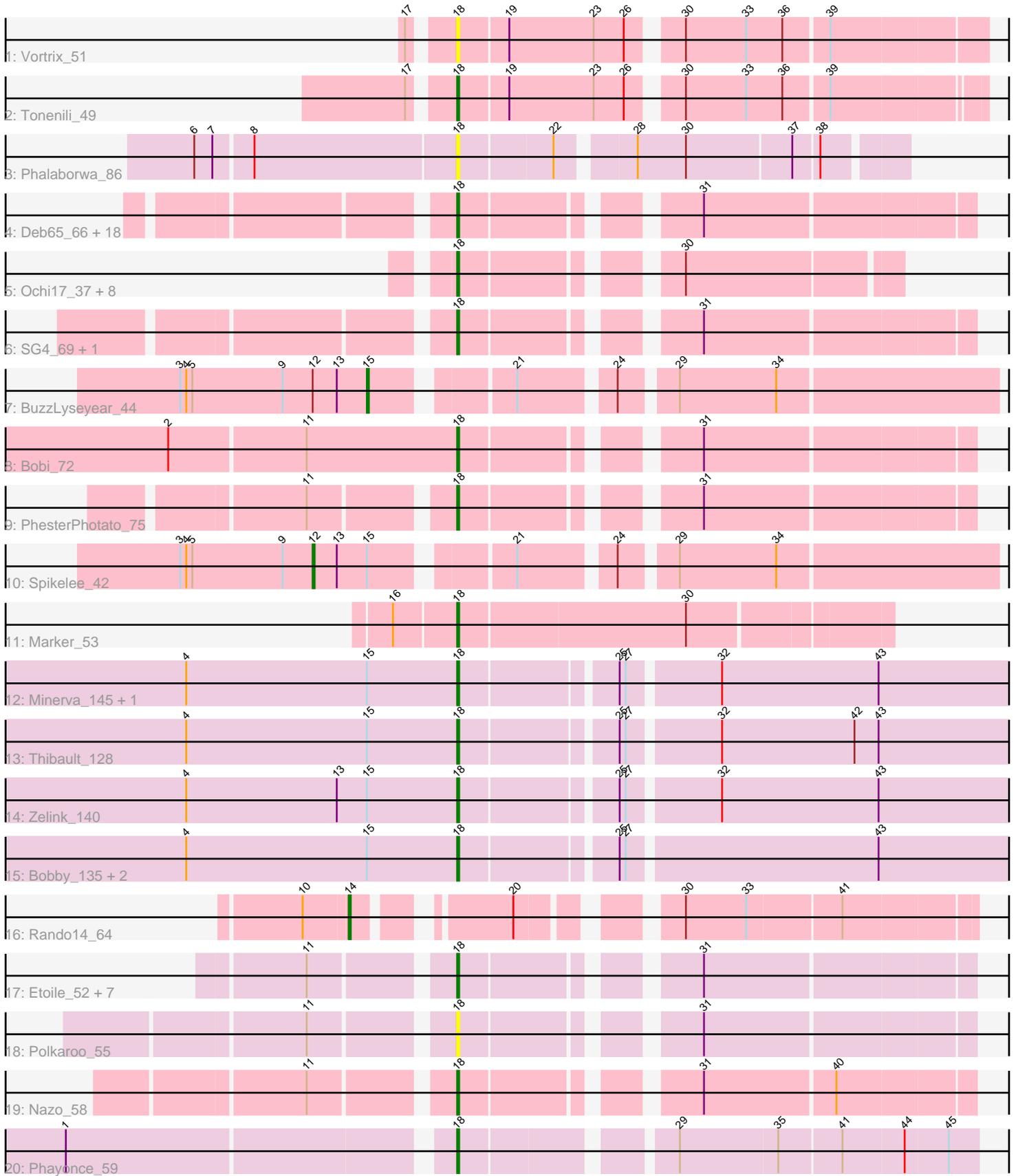


Pham 283846



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 283846 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283846 has 57 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Vortex_51
- Track 2 : Tonenili_49
- Track 3 : Phalaborwa_86
- Track 4 : Deb65_66, Poenanya_76, Daenerys_72, Geralt_66, Inventum_71, JoeyJr_73, Empress_71, RitaG_73, RedBird_74, OldBen_70, Scottish_71, Dorothy_74, Doomphist_76, Sassafras_74, Polka14_77, Leperchaun_71, KingMidas_72, PHappiness_73, Nimbo_65
- Track 5 : Ochi17_37, Jinglebell_38, Modragons_38, OfUltron_39, Seabastian_39, Llama_39, Oksu_39, Yoshi_44, AlpineSix_39
- Track 6 : SG4_69, Hegedechwinu_72
- Track 7 : BuzzLyseyear_44
- Track 8 : Bobi_72
- Track 9 : PhesterPhotato_75
- Track 10 : Spikelee_42
- Track 11 : Marker_53
- Track 12 : Minerva_145, Wanda_145
- Track 13 : Thibault_128
- Track 14 : Zelink_140
- Track 15 : Bobby_135, Hidrated_131, Marleymoo_128
- Track 16 : Rando14_64
- Track 17 : Etoile_52, Langerak_53, Fishburne_52, Chubbello_52, Venti_53, Kari_52, FirstPlacePfu_54, Bartholomew_52
- Track 18 : Polkaroo_55
- Track 19 : Nazo_58
- Track 20 : Phayonce_59

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

The start number called the most often in the published annotations is 18, it was called in 47 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlpineSix_39, Bartholomew_52, Bobby_135, Bobi_72, Chubbello_52, Daenerys_72, Deb65_66, Doomphist_76, Dorothy_74, Empress_71, Etoile_52, FirstPlacePfu_54,

Fishburne_52, Geralt_66, Hegedechwinu_72, Hidrated_131, Inventum_71, Jinglebell_38, JoeyJr_73, Kari_52, KingMidas_72, Langerak_53, Leperchaun_71, Llama_39, Marker_53, Marleymoo_128, Minerva_145, Modragons_38, Nazo_58, Nimbo_65, Ochi17_37, OfUltron_39, Oksu_39, OldBen_70, PHappiness_73, Phalaborwa_86, Phayonce_59, PhesterPhotato_75, Poenanya_76, Polka14_77, Polkaroo_55, RedBird_74, RitaG_73, SG4_69, Sassafras_74, Scottish_71, Seabastian_39, Thibault_128, Tonenili_49, Venti_53, Vortrix_51, Wanda_145, Yoshi_44, Zelink_140,

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

-

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

- BuzzLyseyear_44, Rando14_64, Spikelee_42,

Summary by start number:

Start 12:

- Found in 2 of 57 (3.5%) of genes in pham
- Manual Annotations of this start: 1 of 50
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Spikelee_42 (F1),

Start 14:

- Found in 1 of 57 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 50
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rando14_64 (K5),

Start 15:

- Found in 9 of 57 (15.8%) of genes in pham
- Manual Annotations of this start: 1 of 50
- Called 11.1% of time when present
- Phage (with cluster) where this start called: BuzzLyseyear_44 (F1),

Start 18:

- Found in 54 of 57 (94.7%) of genes in pham
- Manual Annotations of this start: 47 of 50
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlpineSix_39 (F1), Bartholomew_52 (P1), Bobby_135 (J), Bobi_72 (F1), Chubbello_52 (none), Daenerys_72 (F1), Deb65_66 (F1), Doomphist_76 (F1), Dorothy_74 (F1), Empress_71 (F1), Etoile_52 (P1), FirstPlacePfu_54 (P1), Fishburne_52 (P1), Geralt_66 (F1), Hegedechwinu_72 (F1), Hidrated_131 (J), Inventum_71 (F1), Jinglebell_38 (F1), JoeyJr_73 (F1), Kari_52 (P1), KingMidas_72 (F1), Langerak_53 (P1), Leperchaun_71 (F1), Llama_39 (F1), Marker_53 (F1), Marleymoo_128 (J), Minerva_145 (J), Modragons_38 (F1), Nazo_58 (P4), Nimbo_65 (F1), Ochi17_37 (F1), OfUltron_39 (F1), Oksu_39 (F1), OldBen_70 (F1), PHappiness_73 (F1), Phalaborwa_86 (D1), Phayonce_59 (P5), PhesterPhotato_75 (F1), Poenanya_76 (F1), Polka14_77 (F1), Polkaroo_55 (P1), RedBird_74 (F1), RitaG_73 (F1), SG4_69 (F1), Sassafras_74 (F1), Scottish_71 (F1), Seabastian_39 (F1), Thibault_128 (J), Tonenili_49 (C1), Venti_53 (P1), Vortrix_51 (C1), Wanda_145 (J), Yoshi_44 (F2), Zelink_140 (J),

Summary by clusters:

There are 10 clusters represented in this pham: F1, F2, P1, P4, P5, J, none, K5, C1, D1,

Info for manual annotations of cluster C1:

- Start number 18 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster F1:

- Start number 12 was manually annotated 1 time for cluster F1.
- Start number 15 was manually annotated 1 time for cluster F1.
- Start number 18 was manually annotated 31 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 18 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster J:

- Start number 18 was manually annotated 5 times for cluster J.

Info for manual annotations of cluster K5:

- Start number 14 was manually annotated 1 time for cluster K5.

Info for manual annotations of cluster P1:

- Start number 18 was manually annotated 7 times for cluster P1.

Info for manual annotations of cluster P4:

- Start number 18 was manually annotated 1 time for cluster P4.

Info for manual annotations of cluster P5:

- Start number 18 was manually annotated 1 time for cluster P5.

Gene Information:

Gene: AlpineSix_39 Start: 31200, Stop: 31009, Start Num: 18

Candidate Starts for AlpineSix_39:

(Start: 18 @31200 has 47 MA's), (30, 31110),

Gene: Bartholomew_52 Start: 36036, Stop: 36263, Start Num: 18

Candidate Starts for Bartholomew_52:

(11, 35973), (Start: 18 @36036 has 47 MA's), (31, 36135),

Gene: Bobby_135 Start: 77882, Stop: 78160, Start Num: 18

Candidate Starts for Bobby_135:

(4, 77747), (Start: 15 @77837 has 1 MA's), (Start: 18 @77882 has 47 MA's), (25, 77954), (27, 77957), (43, 78077),

Gene: Bobi_72 Start: 44458, Stop: 44685, Start Num: 18

Candidate Starts for Bobi_72:

(2, 44317), (11, 44383), (Start: 18 @44458 has 47 MA's), (31, 44557),

Gene: BuzzLyseyear_44 Start: 32289, Stop: 32008, Start Num: 15
Candidate Starts for BuzzLyseyear_44:
(3, 32382), (4, 32379), (5, 32376), (9, 32331), (Start: 12 @32316 has 1 MA's), (13, 32304), (Start: 15 @32289 has 1 MA's), (21, 32229), (24, 32187), (29, 32163), (34, 32115),

Gene: Chubbello_52 Start: 36032, Stop: 36259, Start Num: 18
Candidate Starts for Chubbello_52:
(11, 35969), (Start: 18 @36032 has 47 MA's), (31, 36131),

Gene: Daenerys_72 Start: 47067, Stop: 47294, Start Num: 18
Candidate Starts for Daenerys_72:
(Start: 18 @47067 has 47 MA's), (31, 47166),

Gene: Deb65_66 Start: 44788, Stop: 45015, Start Num: 18
Candidate Starts for Deb65_66:
(Start: 18 @44788 has 47 MA's), (31, 44887),

Gene: Doomphist_76 Start: 46880, Stop: 47107, Start Num: 18
Candidate Starts for Doomphist_76:
(Start: 18 @46880 has 47 MA's), (31, 46979),

Gene: Dorothy_74 Start: 45505, Stop: 45732, Start Num: 18
Candidate Starts for Dorothy_74:
(Start: 18 @45505 has 47 MA's), (31, 45604),

Gene: Empress_71 Start: 45691, Stop: 45918, Start Num: 18
Candidate Starts for Empress_71:
(Start: 18 @45691 has 47 MA's), (31, 45790),

Gene: Etoile_52 Start: 36036, Stop: 36263, Start Num: 18
Candidate Starts for Etoile_52:
(11, 35973), (Start: 18 @36036 has 47 MA's), (31, 36135),

Gene: FirstPlacePfu_54 Start: 36068, Stop: 36295, Start Num: 18
Candidate Starts for FirstPlacePfu_54:
(11, 36005), (Start: 18 @36068 has 47 MA's), (31, 36167),

Gene: Fishburne_52 Start: 36036, Stop: 36263, Start Num: 18
Candidate Starts for Fishburne_52:
(11, 35973), (Start: 18 @36036 has 47 MA's), (31, 36135),

Gene: Geralt_66 Start: 44787, Stop: 45014, Start Num: 18
Candidate Starts for Geralt_66:
(Start: 18 @44787 has 47 MA's), (31, 44886),

Gene: Hegedechwinu_72 Start: 43105, Stop: 43332, Start Num: 18
Candidate Starts for Hegedechwinu_72:
(Start: 18 @43105 has 47 MA's), (31, 43204),

Gene: Hidrated_131 Start: 76215, Stop: 76493, Start Num: 18
Candidate Starts for Hidrated_131:

(4, 76080), (Start: 15 @76170 has 1 MA's), (Start: 18 @76215 has 47 MA's), (25, 76287), (27, 76290), (43, 76410),

Gene: Inventum_71 Start: 45703, Stop: 45930, Start Num: 18
Candidate Starts for Inventum_71:
(Start: 18 @45703 has 47 MA's), (31, 45802),

Gene: Jinglebell_38 Start: 31199, Stop: 31008, Start Num: 18
Candidate Starts for Jinglebell_38:
(Start: 18 @31199 has 47 MA's), (30, 31109),

Gene: JoeyJr_73 Start: 46692, Stop: 46919, Start Num: 18
Candidate Starts for JoeyJr_73:
(Start: 18 @46692 has 47 MA's), (31, 46791),

Gene: Kari_52 Start: 36033, Stop: 36260, Start Num: 18
Candidate Starts for Kari_52:
(11, 35970), (Start: 18 @36033 has 47 MA's), (31, 36132),

Gene: KingMidas_72 Start: 46106, Stop: 46333, Start Num: 18
Candidate Starts for KingMidas_72:
(Start: 18 @46106 has 47 MA's), (31, 46205),

Gene: Langerak_53 Start: 36052, Stop: 36279, Start Num: 18
Candidate Starts for Langerak_53:
(11, 35989), (Start: 18 @36052 has 47 MA's), (31, 36151),

Gene: Leperchaun_71 Start: 45926, Stop: 46153, Start Num: 18
Candidate Starts for Leperchaun_71:
(Start: 18 @45926 has 47 MA's), (31, 46025),

Gene: Llama_39 Start: 31198, Stop: 31007, Start Num: 18
Candidate Starts for Llama_39:
(Start: 18 @31198 has 47 MA's), (30, 31108),

Gene: Marker_53 Start: 37153, Stop: 37359, Start Num: 18
Candidate Starts for Marker_53:
(16, 37123), (Start: 18 @37153 has 47 MA's), (30, 37264),

Gene: Marleymoo_128 Start: 73628, Stop: 73906, Start Num: 18
Candidate Starts for Marleymoo_128:
(4, 73493), (Start: 15 @73583 has 1 MA's), (Start: 18 @73628 has 47 MA's), (25, 73700), (27, 73703), (43, 73823),

Gene: Minerva_145 Start: 76838, Stop: 77116, Start Num: 18
Candidate Starts for Minerva_145:
(4, 76703), (Start: 15 @76793 has 1 MA's), (Start: 18 @76838 has 47 MA's), (25, 76910), (27, 76913), (32, 76955), (43, 77033),

Gene: Modragons_38 Start: 31043, Stop: 30852, Start Num: 18
Candidate Starts for Modragons_38:
(Start: 18 @31043 has 47 MA's), (30, 30953),

Gene: Nazo_58 Start: 40075, Stop: 40302, Start Num: 18
Candidate Starts for Nazo_58:
(11, 40012), (Start: 18 @40075 has 47 MA's), (31, 40174), (40, 40237),

Gene: Nimbo_65 Start: 44790, Stop: 45017, Start Num: 18
Candidate Starts for Nimbo_65:
(Start: 18 @44790 has 47 MA's), (31, 44889),

Gene: Ochi17_37 Start: 30650, Stop: 30459, Start Num: 18
Candidate Starts for Ochi17_37:
(Start: 18 @30650 has 47 MA's), (30, 30560),

Gene: OfUltron_39 Start: 31199, Stop: 31008, Start Num: 18
Candidate Starts for OfUltron_39:
(Start: 18 @31199 has 47 MA's), (30, 31109),

Gene: Oksu_39 Start: 31043, Stop: 30852, Start Num: 18
Candidate Starts for Oksu_39:
(Start: 18 @31043 has 47 MA's), (30, 30953),

Gene: OldBen_70 Start: 46182, Stop: 46409, Start Num: 18
Candidate Starts for OldBen_70:
(Start: 18 @46182 has 47 MA's), (31, 46281),

Gene: PHappiness_73 Start: 47011, Stop: 47238, Start Num: 18
Candidate Starts for PHappiness_73:
(Start: 18 @47011 has 47 MA's), (31, 47110),

Gene: Phalaborwa_86 Start: 60456, Stop: 60659, Start Num: 18
Candidate Starts for Phalaborwa_86:
(6, 60330), (7, 60339), (8, 60357), (Start: 18 @60456 has 47 MA's), (22, 60501), (28, 60534), (30, 60558), (37, 60609), (38, 60621),

Gene: Phayonce_59 Start: 40788, Stop: 41024, Start Num: 18
Candidate Starts for Phayonce_59:
(1, 40608), (Start: 18 @40788 has 47 MA's), (29, 40881), (35, 40929), (41, 40959), (44, 40989), (45, 41010),

Gene: PhesterPotato_75 Start: 45749, Stop: 45976, Start Num: 18
Candidate Starts for PhesterPotato_75:
(11, 45686), (Start: 18 @45749 has 47 MA's), (31, 45848),

Gene: Poenanya_76 Start: 46880, Stop: 47107, Start Num: 18
Candidate Starts for Poenanya_76:
(Start: 18 @46880 has 47 MA's), (31, 46979),

Gene: Polka14_77 Start: 47670, Stop: 47897, Start Num: 18
Candidate Starts for Polka14_77:
(Start: 18 @47670 has 47 MA's), (31, 47769),

Gene: Polkaroo_55 Start: 37375, Stop: 37602, Start Num: 18
Candidate Starts for Polkaroo_55:
(11, 37312), (Start: 18 @37375 has 47 MA's), (31, 37474),

Gene: Rando14_64 Start: 42240, Stop: 42497, Start Num: 14
Candidate Starts for Rando14_64:
(10, 42219), (Start: 14 @42240 has 1 MA's), (20, 42300), (30, 42360), (33, 42390), (41, 42435),

Gene: RedBird_74 Start: 45372, Stop: 45599, Start Num: 18
Candidate Starts for RedBird_74:
(Start: 18 @45372 has 47 MA's), (31, 45471),

Gene: RitaG_73 Start: 46813, Stop: 47040, Start Num: 18
Candidate Starts for RitaG_73:
(Start: 18 @46813 has 47 MA's), (31, 46912),

Gene: SG4_69 Start: 43478, Stop: 43705, Start Num: 18
Candidate Starts for SG4_69:
(Start: 18 @43478 has 47 MA's), (31, 43577),

Gene: Sassafras_74 Start: 45702, Stop: 45929, Start Num: 18
Candidate Starts for Sassafras_74:
(Start: 18 @45702 has 47 MA's), (31, 45801),

Gene: Scottish_71 Start: 45361, Stop: 45588, Start Num: 18
Candidate Starts for Scottish_71:
(Start: 18 @45361 has 47 MA's), (31, 45460),

Gene: Seabastian_39 Start: 31199, Stop: 31008, Start Num: 18
Candidate Starts for Seabastian_39:
(Start: 18 @31199 has 47 MA's), (30, 31109),

Gene: Spikelee_42 Start: 31774, Stop: 31466, Start Num: 12
Candidate Starts for Spikelee_42:
(3, 31840), (4, 31837), (5, 31834), (9, 31789), (Start: 12 @31774 has 1 MA's), (13, 31762), (Start: 15 @31747 has 1 MA's), (21, 31687), (24, 31645), (29, 31621), (34, 31573),

Gene: Thibault_128 Start: 74023, Stop: 74301, Start Num: 18
Candidate Starts for Thibault_128:
(4, 73888), (Start: 15 @73978 has 1 MA's), (Start: 18 @74023 has 47 MA's), (25, 74095), (27, 74098), (32, 74140), (42, 74206), (43, 74218),

Gene: Tonenili_49 Start: 15568, Stop: 15810, Start Num: 18
Candidate Starts for Tonenili_49:
(17, 15550), (Start: 18 @15568 has 47 MA's), (19, 15592), (23, 15634), (26, 15649), (30, 15670), (33, 15700), (36, 15718), (39, 15739),

Gene: Venti_53 Start: 36036, Stop: 36263, Start Num: 18
Candidate Starts for Venti_53:
(11, 35973), (Start: 18 @36036 has 47 MA's), (31, 36135),

Gene: Vortrix_51 Start: 15836, Stop: 16081, Start Num: 18
Candidate Starts for Vortrix_51:
(17, 15818), (Start: 18 @15836 has 47 MA's), (19, 15860), (23, 15902), (26, 15917), (30, 15938), (33, 15968), (36, 15986), (39, 16007),

Gene: Wanda_145 Start: 75318, Stop: 75596, Start Num: 18

Candidate Starts for Wanda_145:

(4, 75183), (Start: 15 @75273 has 1 MA's), (Start: 18 @75318 has 47 MA's), (25, 75390), (27, 75393),
(32, 75435), (43, 75513),

Gene: Yoshi_44 Start: 30151, Stop: 29960, Start Num: 18

Candidate Starts for Yoshi_44:

(Start: 18 @30151 has 47 MA's), (30, 30061),

Gene: Zelink_140 Start: 78130, Stop: 78408, Start Num: 18

Candidate Starts for Zelink_140:

(4, 77995), (13, 78070), (Start: 15 @78085 has 1 MA's), (Start: 18 @78130 has 47 MA's), (25, 78202),
(27, 78205), (32, 78247), (43, 78325),