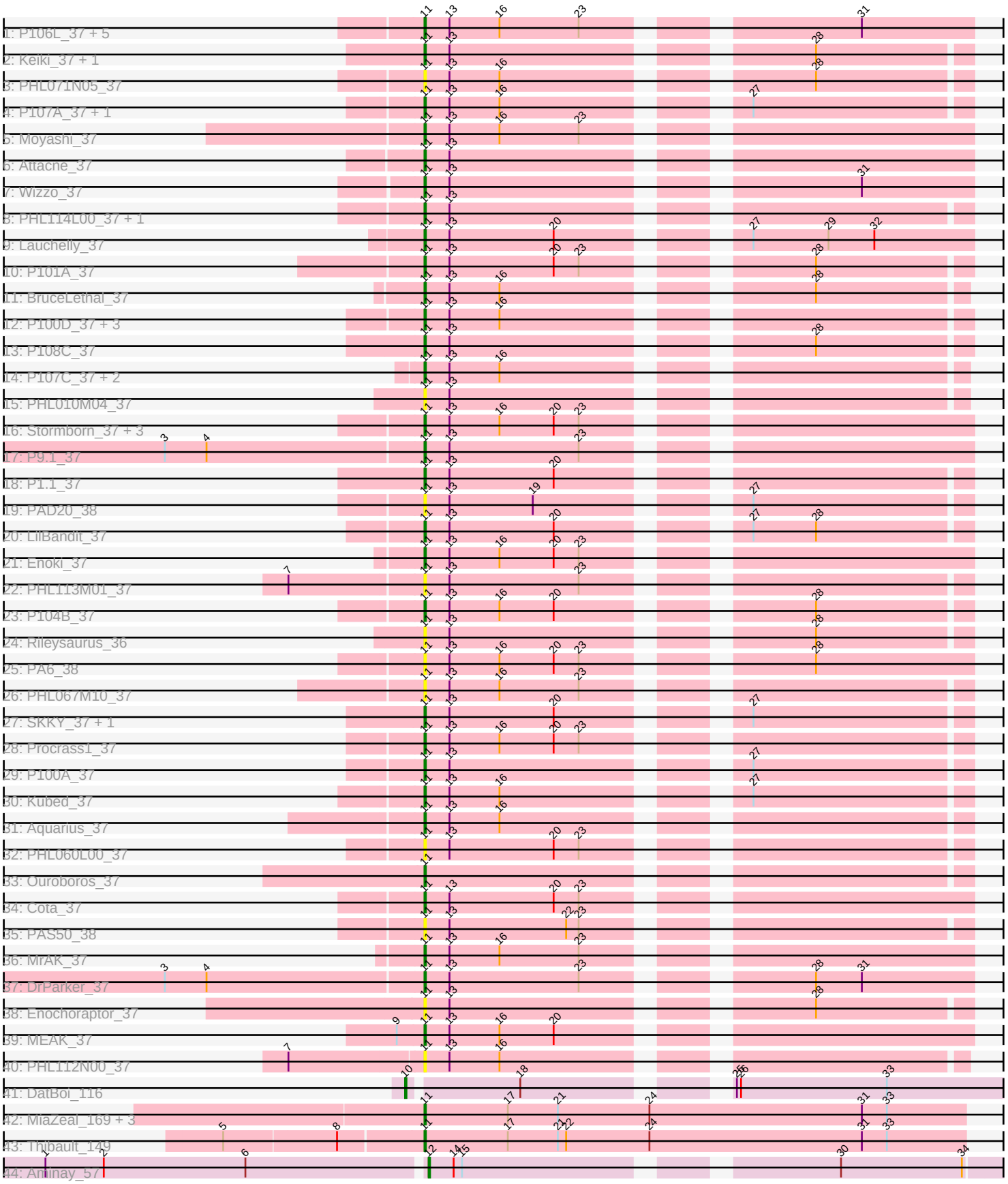
Pham 202937


1: P106L_37 + 5
2: Keiki_37 + 1
3: PHL071N05_37
4: P107A_37 + 1
5: Moyashi_37
6: Attacne_37
7: Wizzo_37
8: PHL114L00_37 + 1
9: Lauchelly_37
10: P101A_37
11: BruceLethal_37
12: P100D_37 + 3
13: P108C_37
14: P107C_37 + 2
15: PHL010M04_37
16: Stormborn_37 + 3
17: P9.1_37
18: P1.1_37
19: PAD20_38
20: LilBandit_37
21: Enoki_37
22: PHL113M01_37
23: P104B_37
24: Rileysaurus_36
25: PA6_38
26: PHL067M10_37
27: SKKY_37 + 1
28: Procrass1_37
29: P100A_37
30: Kubed_37
31: Aquarius_37
32: PHL060L00_37
33: Ouroboros_37
34: Cota_37
35: PAS50_38
36: MrAK_37
37: DrParker_37
38: Enochoraptor_37
39: MEAK_37
40: PHL112N00_37
41: DatBoi_116
42: MiaZeal_169 + 3
43: Thibault_149
44: Antinay_57

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 202937 Report

This analysis was run 01/18/25 on database version 583.

Pham number 202937 has 64 members, 14 are drafts.

Phages represented in each track:
- Track 1 : P106L_37, P106M_37, P100.1_37, P106C_38, P106I_37, P106A_37
- Track 2 : Keiki_37, Pirate_37
- Track 3 : PHL071N05_37
- Track 4 : P107A_37, Solid_37
- Track 5 : Moyashi_37
- Track 6 : Attacne_37
- Track 7 : Wizzo_37
- Track 8 : PHL114L00_37, P14.4_37
- Track 9 : Lauchelly_37
- Track 10 : P101A_37
- Track 11 : BruceLethal_37
- Track 12 : P100D_37, P105_37, QueenBey_37, Leviosa_37
- Track 13 : P108C_37
- Track 14 : P107C_37, ATCC29399BT_37, ATCC29399BC_37
- Track 15 : PHL010M04_37
- Track 16 : Stormborn_37, P104A_37, Supernova_37, PHL111M01_37
- Track 17 : P9.1_37
- Track 18 : P1.1_37
- Track 19 : PAD20_38
- Track 20 : LilBandit_37
- Track 21 : Enoki_37
- Track 22 : PHL113M01_37
- Track 23 : P104B_37
- Track 24 : Rileysaurus_36
- Track 25 : PA6_38
- Track 26 : PHL067M10_37
- Track 27 : SKKY_37, PHL037M02_37
- Track 28 : Procrass1_37
- Track 29 : P100A_37
- Track 30 : Kubed_37
- Track 31 : Aquarius_37
- Track 32 : PHL060L00_37
- Track 33 : Ouroboros_37
- Track 34 : Cota_37
- Track 35 : PAS50_38
- Track 36 : MrAK_37
- Track 37 : DrParker_37

• Track 38 : Enochoraptor_37
• Track 39 : MEAK_37
• Track 40 : PHL112N00_37
• Track 41 : DatBoi_116
• Track 42 : MiaZeal_169, LittleE_173, Lucky2013_162, Porcelain_166
• Track 43 : Thibault_149
• Track 44 : Aminay_57

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 48 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ATCC29399BC_37, ATCC29399BT_37, Aquarius_37, Attacne_37, BruceLethal_37, Cota_37, DrParker_37, Enochoraptor_37, Enoki_37, Keiki_37, Kubed_37, Lauchelly_37, Leviosa_37, LilBandit_37, LittleE_173, Lucky2013_162, MEAK_37, MiaZeal_169, Moyashi_37, MrAK_37, Ouroboros_37, P1.1_37, P100.1_37, P100A_37, P100D_37, P101A_37, P104A_37, P104B_37, P105_37, P106A_37, P106C_38, P106I_37, P106L_37, P106M_37, P107A_37, P107C_37, P108C_37, P14.4_37, P9.1_37, PA6_38, PAD20_38, PAS50_38, PHL010M04_37, PHL037M02_37, PHL060L00_37, PHL067M10_37, PHL071N05_37, PHL111M01_37, PHL112N00_37, PHL113M01_37, PHL114L00_37, Pirate_37, Porcelain_166, Procrass1_37, QueenBey_37, Rileysaurus_36, SKKY_37, Solid_37, Stormborn_37, Supernova_37, Thibault_149, Wizzo_37,

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

Genes that do not have the "Most Annotated" start:
• Aminay_57, DatBoi_116,

Summary by start number:

Start 10:
• Found in 1 of 64 (1.6%) 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: DatBoi_116 (DL),

Start 11:
• Found in 62 of 64 (96.9%) of genes in pham
• Manual Annotations of this start: 48 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ATCC29399BC_37 (BU), ATCC29399BT_37 (BU), Aquarius_37 (BU), Attacne_37 (BU), BruceLethal_37 (BU), Cota_37 (BU), DrParker_37 (BU), Enochoraptor_37 (BU), Enoki_37 (BU), Keiki_37 (BU), Kubed_37 (BU), Lauchelly_37 (BU), Leviosa_37 (BU), LilBandit_37 (BU), LittleE_173 (J), Lucky2013_162 (J), MEAK_37 (BU), MiaZeal_169 (J), Moyashi_37 (BU), MrAK_37 (BU), Ouroboros_37 (BU), P1.1_37 (BU), P100.1_37 (BU), P100A_37

(BU), P100D_37 (BU), P101A_37 (BU), P104A_37 (BU), P104B_37 (BU), P105_37 (BU), P106A_37 (BU), P106C_38 (BU), P106I_37 (BU), P106L_37 (BU), P106M_37 (BU), P107A_37 (BU), P107C_37 (BU), P108C_37 (BU), P14.4_37 (BU), P9.1_37 (BU), PA6_38 (BU), PAD20_38 (BU), PAS50_38 (BU), PHL010M04_37 (BU), PHL037M02_37 (BU), PHL060L00_37 (BU), PHL067M10_37 (BU), PHL071N05_37 (BU), PHL111M01_37 (BU), PHL112N00_37 (BU), PHL113M01_37 (BU), PHL114L00_37 (BU), Pirate_37 (BU), Porcelain_166 (J), Procrass1_37 (BU), QueenBey_37 (BU), Rileysaurus_36 (BU), SKKY_37 (BU), Solid_37 (BU), Stormborn_37 (BU), Supernova_37 (BU), Thibault_149 (J), Wizzo_37 (BU),

Start 12:
• Found in 1 of 64 (1.6%) 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: Aminay_57 (K7),

Summary by clusters:

There are 4 clusters represented in this pham: BU, DL, J, K7,

Info for manual annotations of cluster BU:
•Start number 11 was manually annotated 43 times for cluster BU.

Info for manual annotations of cluster DL:
•Start number 10 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster J:
•Start number 11 was manually annotated 5 times for cluster J.

Info for manual annotations of cluster K7:
•Start number 12 was manually annotated 1 time for cluster K7.

Gene Information:

Gene: ATCC29399BC_37 Start: 24986, Stop: 24636, Start Num: 11
Candidate Starts for ATCC29399BC_37:
(Start: 11 @24986 has 48 MA's), (13, 24968), (16, 24932),

Gene: ATCC29399BT_37 Start: 24986, Stop: 24636, Start Num: 11
Candidate Starts for ATCC29399BT_37:
(Start: 11 @24986 has 48 MA's), (13, 24968), (16, 24932),

Gene: Aminay_57 Start: 39956, Stop: 40345, Start Num: 12
Candidate Starts for Aminay_57:
(1, 39689), (2, 39731), (6, 39833), (Start: 12 @39956 has 1 MA's), (14, 39974), (15, 39980), (30, 40217), (34, 40304),

Gene: Aquarius_37 Start: 24448, Stop: 24095, Start Num: 11
Candidate Starts for Aquarius_37:
(Start: 11 @24448 has 48 MA's), (13, 24430), (16, 24394),

Gene: Attacne_37 Start: 24487, Stop: 24128, Start Num: 11
Candidate Starts for Attacne_37:
(Start: 11 @24487 has 48 MA's), (13, 24469),

Gene: BruceLethal_37 Start: 25011, Stop: 24661, Start Num: 11
Candidate Starts for BruceLethal_37:
(Start: 11 @25011 has 48 MA's), (13, 24993), (16, 24957), (28, 24765),

Gene: Cota_37 Start: 25045, Stop: 24686, Start Num: 11
Candidate Starts for Cota_37:
(Start: 11 @25045 has 48 MA's), (13, 25027), (20, 24952), (23, 24934),

Gene: DatBoi_116 Start: 73558, Stop: 74007, Start Num: 10
Candidate Starts for DatBoi_116:
(Start: 10 @73558 has 1 MA's), (18, 73633), (25, 73753), (26, 73756), (33, 73861),

Gene: DrParker_37 Start: 25088, Stop: 24729, Start Num: 11
Candidate Starts for DrParker_37:
(3, 25265), (4, 25235), (Start: 11 @25088 has 48 MA's), (13, 25070), (23, 24977), (28, 24842), (31, 24809),

Gene: Enochoraptor_37 Start: 25026, Stop: 24673, Start Num: 11
Candidate Starts for Enochoraptor_37:
(Start: 11 @25026 has 48 MA's), (13, 25008), (28, 24780),

Gene: Enoki_37 Start: 25032, Stop: 24673, Start Num: 11
Candidate Starts for Enoki_37:
(Start: 11 @25032 has 48 MA's), (13, 25014), (16, 24978), (20, 24939), (23, 24921),

Gene: Keiki_37 Start: 24960, Stop: 24607, Start Num: 11
Candidate Starts for Keiki_37:
(Start: 11 @24960 has 48 MA's), (13, 24942), (28, 24714),

Gene: Kubed_37 Start: 25015, Stop: 24662, Start Num: 11
Candidate Starts for Kubed_37:
(Start: 11 @25015 has 48 MA's), (13, 24997), (16, 24961), (27, 24814),

Gene: Lauchelly_37 Start: 25059, Stop: 24700, Start Num: 11
Candidate Starts for Lauchelly_37:
(Start: 11 @25059 has 48 MA's), (13, 25041), (20, 24966), (27, 24858), (29, 24804), (32, 24771),

Gene: Leviosa_37 Start: 25033, Stop: 24680, Start Num: 11
Candidate Starts for Leviosa_37:
(Start: 11 @25033 has 48 MA's), (13, 25015), (16, 24979),

Gene: LilBandit_37 Start: 24846, Stop: 24493, Start Num: 11
Candidate Starts for LilBandit_37:
(Start: 11 @24846 has 48 MA's), (13, 24828), (20, 24753), (27, 24645), (28, 24600),

Gene: LittleE_173 Start: 88941, Stop: 89330, Start Num: 11
Candidate Starts for LittleE_173:
(Start: 11 @88941 has 48 MA's), (17, 89001), (21, 89037), (24, 89103), (31, 89256), (33, 89274),

Gene: Lucky2013_162 Start: 84438, Stop: 84827, Start Num: 11
Candidate Starts for Lucky2013_162:
(Start: 11 @84438 has 48 MA's), (17, 84498), (21, 84534), (24, 84600), (31, 84753), (33, 84771),

Gene: MEAK_37 Start: 24711, Stop: 24352, Start Num: 11
Candidate Starts for MEAK_37:
(9, 24723), (Start: 11 @24711 has 48 MA's), (13, 24693), (16, 24657), (20, 24618),

Gene: MiaZeal_169 Start: 85585, Stop: 85974, Start Num: 11
Candidate Starts for MiaZeal_169:
(Start: 11 @85585 has 48 MA's), (17, 85645), (21, 85681), (24, 85747), (31, 85900), (33, 85918),

Gene: Moyashi_37 Start: 24819, Stop: 24460, Start Num: 11
Candidate Starts for Moyashi_37:
(Start: 11 @24819 has 48 MA's), (13, 24801), (16, 24765), (23, 24708),

Gene: MrAK_37 Start: 24832, Stop: 24473, Start Num: 11
Candidate Starts for MrAK_37:
(Start: 11 @24832 has 48 MA's), (13, 24814), (16, 24778), (23, 24721),

Gene: Ouroboros_37 Start: 25031, Stop: 24678, Start Num: 11
Candidate Starts for Ouroboros_37:
(Start: 11 @25031 has 48 MA's),

Gene: P1.1_37 Start: 25059, Stop: 24706, Start Num: 11
Candidate Starts for P1.1_37:
(Start: 11 @25059 has 48 MA's), (13, 25041), (20, 24966),

Gene: P100.1_37 Start: 25109, Stop: 24750, Start Num: 11
Candidate Starts for P100.1_37:
(Start: 11 @25109 has 48 MA's), (13, 25091), (16, 25055), (23, 24998), (31, 24830),

Gene: P100A_37 Start: 25041, Stop: 24688, Start Num: 11
Candidate Starts for P100A_37:
(Start: 11 @25041 has 48 MA's), (13, 25023), (27, 24840),

Gene: P100D_37 Start: 25020, Stop: 24667, Start Num: 11
Candidate Starts for P100D_37:
(Start: 11 @25020 has 48 MA's), (13, 25002), (16, 24966),

Gene: P101A_37 Start: 25052, Stop: 24699, Start Num: 11
Candidate Starts for P101A_37:
(Start: 11 @25052 has 48 MA's), (13, 25034), (20, 24959), (23, 24941), (28, 24806),

Gene: P104A_37 Start: 24814, Stop: 24461, Start Num: 11
Candidate Starts for P104A_37:
(Start: 11 @24814 has 48 MA's), (13, 24796), (16, 24760), (20, 24721), (23, 24703),

Gene: P104B_37 Start: 25021, Stop: 24668, Start Num: 11
Candidate Starts for P104B_37:
(Start: 11 @25021 has 48 MA's), (13, 25003), (16, 24967), (20, 24928), (28, 24775),

Gene: P105_37 Start: 24696, Stop: 24343, Start Num: 11

Candidate Starts for P105_37:
(Start: 11 @24696 has 48 MA's), (13, 24678), (16, 24642),

Gene: P106A_37 Start: 25126, Stop: 24767, Start Num: 11
Candidate Starts for P106A_37:
(Start: 11 @25126 has 48 MA's), (13, 25108), (16, 25072), (23, 25015), (31, 24847),

Gene: P106C_38 Start: 25042, Stop: 24683, Start Num: 11
Candidate Starts for P106C_38:
(Start: 11 @25042 has 48 MA's), (13, 25024), (16, 24988), (23, 24931), (31, 24763),

Gene: P106I_37 Start: 24871, Stop: 24512, Start Num: 11
Candidate Starts for P106I_37:
(Start: 11 @24871 has 48 MA's), (13, 24853), (16, 24817), (23, 24760), (31, 24592),

Gene: P106L_37 Start: 25042, Stop: 24683, Start Num: 11
Candidate Starts for P106L_37:
(Start: 11 @25042 has 48 MA's), (13, 25024), (16, 24988), (23, 24931), (31, 24763),

Gene: P106M_37 Start: 25042, Stop: 24683, Start Num: 11
Candidate Starts for P106M_37:
(Start: 11 @25042 has 48 MA's), (13, 25024), (16, 24988), (23, 24931), (31, 24763),

Gene: P107A_37 Start: 25060, Stop: 24707, Start Num: 11
Candidate Starts for P107A_37:
(Start: 11 @25060 has 48 MA's), (13, 25042), (16, 25006), (27, 24859),

Gene: P107C_37 Start: 24986, Stop: 24636, Start Num: 11
Candidate Starts for P107C_37:
(Start: 11 @24986 has 48 MA's), (13, 24968), (16, 24932),

Gene: P108C_37 Start: 25017, Stop: 24664, Start Num: 11
Candidate Starts for P108C_37:
(Start: 11 @25017 has 48 MA's), (13, 24999), (28, 24771),

Gene: P14.4_37 Start: 25029, Stop: 24676, Start Num: 11
Candidate Starts for P14.4_37:
(Start: 11 @25029 has 48 MA's), (13, 25011),

Gene: P9.1_37 Start: 25060, Stop: 24701, Start Num: 11
Candidate Starts for P9.1_37:
(3, 25237), (4, 25207), (Start: 11 @25060 has 48 MA's), (13, 25042), (23, 24949),

Gene: PA6_38 Start: 25025, Stop: 24666, Start Num: 11
Candidate Starts for PA6_38:
(Start: 11 @25025 has 48 MA's), (13, 25007), (16, 24971), (20, 24932), (23, 24914), (28, 24779),

Gene: PAD20_38 Start: 24785, Stop: 24432, Start Num: 11
Candidate Starts for PAD20_38:
(Start: 11 @24785 has 48 MA's), (13, 24767), (19, 24707), (27, 24584),

Gene: PAS50_38 Start: 25033, Stop: 24680, Start Num: 11
Candidate Starts for PAS50_38:

(Start: 11 @25033 has 48 MA's), (13, 25015), (22, 24931), (23, 24922),

Gene: PHL010M04_37 Start: 25018, Stop: 24668, Start Num: 11
Candidate Starts for PHL010M04_37:
(Start: 11 @25018 has 48 MA's), (13, 25000),

Gene: PHL037M02_37 Start: 25019, Stop: 24666, Start Num: 11
Candidate Starts for PHL037M02_37:
(Start: 11 @25019 has 48 MA's), (13, 25001), (20, 24926), (27, 24818),

Gene: PHL060L00_37 Start: 24865, Stop: 24512, Start Num: 11
Candidate Starts for PHL060L00_37:
(Start: 11 @24865 has 48 MA's), (13, 24847), (20, 24772), (23, 24754),

Gene: PHL067M10_37 Start: 24983, Stop: 24630, Start Num: 11
Candidate Starts for PHL067M10_37:
(Start: 11 @24983 has 48 MA's), (13, 24965), (16, 24929), (23, 24872),

Gene: PHL071N05_37 Start: 25049, Stop: 24696, Start Num: 11
Candidate Starts for PHL071N05_37:
(Start: 11 @25049 has 48 MA's), (13, 25031), (16, 24995), (28, 24803),

Gene: PHL111M01_37 Start: 24749, Stop: 24390, Start Num: 11
Candidate Starts for PHL111M01_37:
(Start: 11 @24749 has 48 MA's), (13, 24731), (16, 24695), (20, 24656), (23, 24638),

Gene: PHL112N00_37 Start: 25041, Stop: 24691, Start Num: 11
Candidate Starts for PHL112N00_37:
(7, 25128), (Start: 11 @25041 has 48 MA's), (13, 25023), (16, 24987),

Gene: PHL113M01_37 Start: 24790, Stop: 24437, Start Num: 11
Candidate Starts for PHL113M01_37:
(7, 24877), (Start: 11 @24790 has 48 MA's), (13, 24772), (23, 24679),

Gene: PHL114L00_37 Start: 24979, Stop: 24626, Start Num: 11
Candidate Starts for PHL114L00_37:
(Start: 11 @24979 has 48 MA's), (13, 24961),

Gene: Pirate_37 Start: 24945, Stop: 24592, Start Num: 11
Candidate Starts for Pirate_37:
(Start: 11 @24945 has 48 MA's), (13, 24927), (28, 24699),

Gene: Porcelain_166 Start: 85384, Stop: 85773, Start Num: 11
Candidate Starts for Porcelain_166:
(Start: 11 @85384 has 48 MA's), (17, 85444), (21, 85480), (24, 85546), (31, 85699), (33, 85717),

Gene: Procrass1_37 Start: 24972, Stop: 24619, Start Num: 11
Candidate Starts for Procrass1_37:
(Start: 11 @24972 has 48 MA's), (13, 24954), (16, 24918), (20, 24879), (23, 24861),

Gene: QueenBey_37 Start: 24997, Stop: 24644, Start Num: 11
Candidate Starts for QueenBey_37:
(Start: 11 @24997 has 48 MA's), (13, 24979), (16, 24943),

Gene: Rileysaurus_36 Start: 25041, Stop: 24688, Start Num: 11
Candidate Starts for Rileysaurus_36:
(Start: 11 @25041 has 48 MA's), (13, 25023), (28, 24795),

Gene: SKKY_37 Start: 24777, Stop: 24424, Start Num: 11
Candidate Starts for SKKY_37:
(Start: 11 @24777 has 48 MA's), (13, 24759), (20, 24684), (27, 24576),

Gene: Solid_37 Start: 25020, Stop: 24667, Start Num: 11
Candidate Starts for Solid_37:
(Start: 11 @25020 has 48 MA's), (13, 25002), (16, 24966), (27, 24819),

Gene: Stormborn_37 Start: 24639, Stop: 24280, Start Num: 11
Candidate Starts for Stormborn_37:
(Start: 11 @24639 has 48 MA's), (13, 24621), (16, 24585), (20, 24546), (23, 24528),

Gene: Supernova_37 Start: 24772, Stop: 24419, Start Num: 11
Candidate Starts for Supernova_37:
(Start: 11 @24772 has 48 MA's), (13, 24754), (16, 24718), (20, 24679), (23, 24661),

Gene: Thibault_149 Start: 84761, Stop: 85150, Start Num: 11
Candidate Starts for Thibault_149:
(5, 84632), (8, 84710), (Start: 11 @84761 has 48 MA's), (17, 84821), (21, 84857), (22, 84863), (24, 84923), (31, 85076), (33, 85094),

Gene: Wizzo_37 Start: 24505, Stop: 24146, Start Num: 11
Candidate Starts for Wizzo_37:
(Start: 11 @24505 has 48 MA's), (13, 24487), (31, 24226),