<**ORDER NUMBER: 32747 >**

<**MOUSE AUTHENTICATION 03**>

**CELLS ORIGEN:**

**LAB MANAGER:** Dra Ángela Martínez Valverde **USER:** Patricia Vázquez **Email:** [patrivazquez@iib.uam.es](mailto:patrivazquez@iib.uam.es)

**DATE:** 20.09.2016 **CELL LINES:** BAT y 661W

**ASSAY PERFORMED BY:** Miguel Angel Anta **AT IIBM GENOMIS CORE FACILITY**

**PRIMER SEQUENCES**

|  |  |  |
| --- | --- | --- |
| **Primer** | **Secuencia 5' --> 3'** |  |
| Fw 6-7 | AGTCCACCCAGTGCATTCTC | Mouse |
| Rv 6-7 | CATGTGGCTGGTATGCTGTT | Mouse |
| Fw 15-3 | TCTGGGCGTGTCTGTCATAA | Mouse |
| Rv 15-3 | TTCTCAGGGAGGAGTGTGCT | Mouse |
| Fw D4S2408 | TCATTTCCATAGGGTAAGTGAAAA | Human |
| Rw:D4S2408 | GCCATGGGGATAAAATCAGA | Human |

**AMPLICON SIZE (BP)**

|  |  |
| --- | --- |
| **STR MARKER** | **SIZE (BP)** |
| Mouse 6-7 | 333-515 |
| Mouse 15-3 | 157-222 |
| Human D4S2408 | 336-360 |

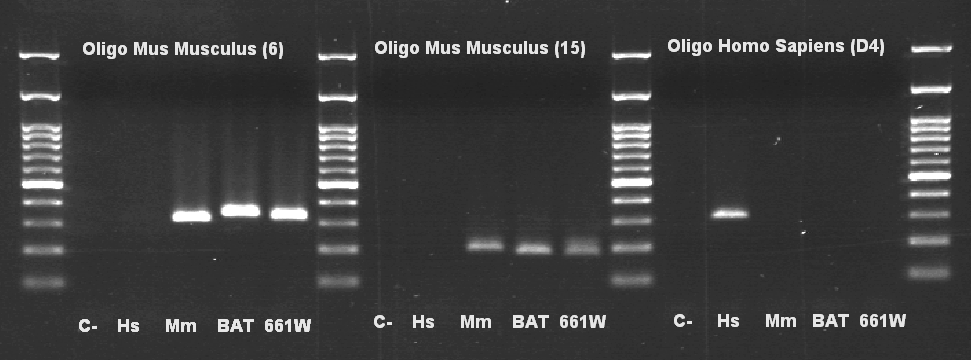
**PCR PROTOCOL FOR 6-7, 15-3 AND D4 STR MARKERS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Step #** | **Temp °C** | **Time** | **Note** |
| 1 | 95 | 11 min | - |
| 2 | 94 | 45 sec | - |
| 3 | 59 | 2 min | - |
| 4 | 72 | 1 min | X 30 steps 2-4 |
| 5 | 60 | 10 min | - |
| 6 | 4 | - | hold |

|  |  |  |
| --- | --- | --- |
| **Reagent** | **1 Rxn. VF: 20 ul** | **Conc F** |
| Buffer | 2 ul | - |
| MgCl2 (25mM) | 2 ul | - |
| dNTPsMix (10mM) | 0.4 ul | - |
| Taq Gold pol | 0.5 ul | - |
| Fw (2.7uM) | 1.5 ul |  |
| Rv (2.7uM) | 1.5 ul |  |
| Sample | 2 ul | - |
| H2O | 10.1 ul | - |

**GEL IMAGE**

|  |  |  |
| --- | --- | --- |
| L, H2O, Hs, Mm, BAT, 661W | L, H2O, Hs, Mm, BAT, 661W | L, H2O, Hs, Mm, BAT, 661W |
| ***Mus Musculus* (6-7)** | ***Mus Musculus* (15-3)** | **Oligo *Homo Sapiens* (D4)** |



Hs: *Homo sapiens* control DNA Mm: *Mus musculus* control DNA L: DNA ladder

**REFERENCE:**

# Mouse cell line authentication. Cytotechnology. 2014 Jan; 66(1): 133–147. Jamie L Almeida, Carolyn R Hill and Kenneth D Cole

Authentication of African green monkey cell lines using human short tandem repeat markers. BMC Biotechnology 2011 **11**:102. Jamie L Almeida, Carolyn R Hill and Kenneth D Cole