| Gene   | GenBank ID | Locus in human/mouse (Mb) | Locus in dog (Mb) | Human disease / Mouse mutant, Inheritance | Reference          |
|--------|------------|---------------------------|-------------------|------------------------------------------|--------------------|
| **Gene** | **ID**    | **Chr**: **32.96-32.99**  | **Chr11**: **53.14-53.15** | Ataxia with oculomotor apraxia 1 (AOA1), AR | Date ym. 2001     |
| APTX   | 54840      | Chr9: 134.13-134.22       | Chr9: 55.25-55.32 | Ataxia with oculomotor apraxia 2 (AOA2), AR | Moreira ym. 2004   |
| SETX   | 23064      | Chr11: 107.50-107.75      | Chr5: 27.19-27.30 | Ataxia telangiectasia (AT), AR            | Savitsky ym. 1995  |
| ATM    | 472        | Chr11: 93.76-93.87        | Chr20: 58.68-58.70 | Ataxia-telangiectasia-like disorder (ATLD), AR | Stewart ym. 1999   |
| ATM     | 472        | Chr11: 93.76-93.87       | Chr20: 58.68-58.70 | Ataxia-telangiectasia-like disorder (ATLD), AR | Stewart ym. 1999   |
| MRE11A | 4361       | Chr13: 22.80-22.88       | Chr25: 18.24-18.28 | Charlevoix-Sagueyen spastic ataxia (ARSACS), AR | Engert ym. 2000    |
| ATCAY   | 85300      | Chr19: 3.8-3.87           | Chr1: 91.36-91.37 | Friedreich ataxia (FRDA), AR              | Campuzano ym. 1996 |
| SACS   | 26278      | Chr20: 58.68-58.70       | Chr1: 91.36-91.37 | Friedreich ataxia (FRDA), AR              | Campuzano ym. 1996 |
| FRDA   | 2395       | Chr9: 70.84-70.88        | Chr25: 18.24-18.28 | Charlevoix-Sagueyen spastic ataxia (ARSACS), AR | Engert ym. 2000    |
| C10Orf2 | 56652      | Chr10: 102.74-102.74     | Chr20: 58.68-58.70 | Friedreich ataxia (FRDA), AR              | Campuzano ym. 1996 |
| SIL1   | 64374      | Chr19: 3.8-3.87           | Chr1: 91.36-91.37 | Friedreich ataxia (FRDA), AR              | Campuzano ym. 1996 |
| POLG   | 5428       | Chr15: 87.66-87.68       | Chr3: 55.22-55.24 | Mitochondrial recessive ataxia syndrome (MIRAS), AR | Van Goethem ym. 2004 |
| SYNE1  | 23345      | Chr6: 152.48-152.70     | Chr1: 50.49-50.71 | Spinocerebellar ataxia autosomal recessive 8 (SCAR8), AR | Gros-Louis et al. 2004 |
| SPTBN2 | 6712       | Chr11: 66.21-66.25       | Chr18: 53.66-53.70 | Spinocerebellar ataxia 5 (SCA5), AD       | Ikeda ym. 2006     |
| CACNA1A | 773        | Chr19: 13.22-13.25       | Chr20: 51.82-51.90 | Spinocerebellar ataxia 6 (SCA6), AD       | Zuchchenko ym. 1997 |
| PRKCG  | 5582       | Chr19: 59.07-59.10       | Chr1: 106.38-106.39 | Spinocerebellar ataxia 14 (SCA14), AD     | Chen ym. 2003      |
| ITPR1  | 3708       | Chr3: 4.51-4.86          | Chr20: 15.75-16.07 | Spinocerebellar ataxia 15 (SCA15), AD     | van de Leemput ym. 2007 |
| **Mouse phenotype** | **Gene** | **Locus** | **Reference** |
| Camk4  | 12326      | Chr18: 33.08-33.31       | Camk4^−/− mouse, AR | Ribar et al. 2000 |
| Grid2  | 14804      | Chr6: 63.19-64.60        | Lurcher (+/Lc), AR; Hotfoot (ho/ho), AR | Zuo et al. 1997; Lalouette et al. 1998 |
| Scyll1 | 12326      | Chr18: 33.08-33.31       | Camk4^−/− mouse, AR | Ribar et al. 2000 |
| Scy1   | 78981      | Chr15: 87.66-87.68       | Lurcher (+/Lc), AR; Hotfoot (ho/ho), AR | Zuo et al. 1997; Lalouette et al. 1998 |
| Agtbp1 | 67269      | Chr13: 59.46-59.57       | Purkinje cell degeneration (pcd) mice, AR | Fernandez-Gonzalez et al. 2002 |
| Reln   | 19699      | Chr5: 57.67-57.77        | Muscle deficient (mdf/mdf), AR | Schmidt et al. 2007 |
| Psap   | 19156      | Chr10: 59.67-59.70       | Reeler (r/r), AR | Fernandez-Gonzalez et al. 2002 |
| Rora   | 19883      | Chr9: 68.46-69.18        | Saposin D^− mouse, AR | Matsuda et al. 2004 |
| Kcnj6  | 16522      | Chr8: 113.92-113.94      | Saposin D^− mouse, AR | Matsuda et al. 2004 |

AR=Autosomal recessive, AD=Autosomal dominant