

4)Dntt

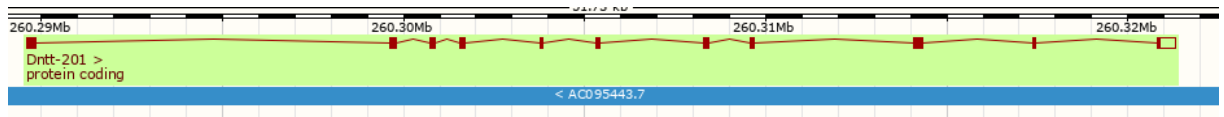
Rattus norvegicus DNA nucleotidylexotransferase (**Dntt**), mRNA

terminal deoxynucleotidyltransferase

- **Référence NCBI :** NM_001012461
- **Taille 1532 NT**
- **Séquences protéique / NT :**

MDPLQAVHLGPRKKRPRQTGASGASTPHDIRFRDLVLFIEKKM
GTTRRAFLMELARRKGFRVENELSDSVTHIVAENNSGSDVLEWLQLQNIKASSEFELL
DISWLIIECMGAGKPVEMAGRHLVVRNPSLSPVPGSQTVPPPLMQKISQYACQRR
T LNNHNQLFTDAFDILAENYEFRENEVSCLPFMRAASVLKSLSFPIVSMKDIEGIPCLG
DKVKCVIEGIIEDGESSEVKAVLNDERYKSFKLFTSVFGVGLKTAEKWFRMGFRTLK
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GFRRGKMTGHDVDFLITSPEATEEEEEQQLLHKVTNFWRQQGLLLYCDIIESTFEKFKL
PSRKVDALDHFQKCFILKLHRGLVRSEESGQQEGKDWKAIRVDLVMCPYERRAFAL
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PWER NA

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421 ctgtcccagg ctcccagacc gttccgccac ctctcatgca gaagatctcc cagtacgctt
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- **Amorces synthétisées :**

Dntt_AscI_Fwd

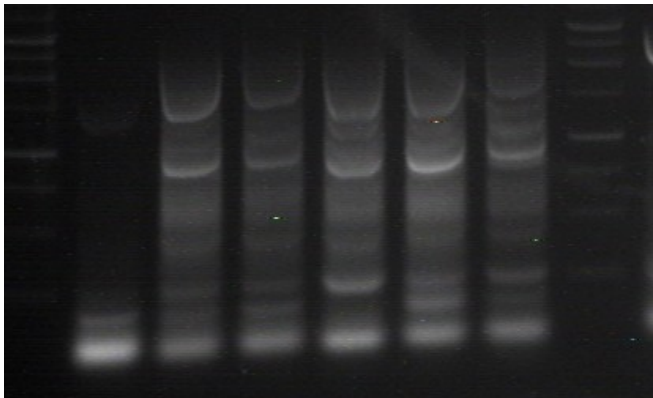
tataGGCGCGCCa atg gatccgctgc aagcagtcc

Dntt_NotI_Rev

ttaaGCGGCCGCa ttaagcatttctttcccatggttc

- **Expériences :**

- 29/10 PCR pfu 60°C pfu 50ul 40 cycles
 - rate/DiT0/DiT24hLPS : les miens de fevrier
 - 48h mix/SP/CTX faits le 28/10



○ **FlagBirA Dntt rate clone A**

➤ **B3Fwd rate 690NT**

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GGCCCGAAGGAAAGGGTTCAGGGTGGAAAATGAGCTCAGTGACTCTGTCACCCA
CATCGTGGCAGAGAACAACCTCGGGATCCGACGTCCTGGAGTGGCTCCAGCTACA
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➤ **BGHRev 991NT**

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➤ **Synthèse séquençage rate : NT**

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 SNKLLETAGVAFVLRHHRVDL-KVQAAQQEGGRPRSLPEVLPYSEAAPWPSAQ-
 GERPAGRKGLEGHPCRSGHVPL-APGLRPARVDWIQAV-ERLAALRHTRAEDDAGQPRSV-
 QDQEGVS-SRK-RRDLCPSGIGLH-TMGKKCL

Stop précoces

➤ Blast contre banque rat

	Description	Common Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession
☒	Rattus norvegicus DNA nucleotidylexotransferase (Dntt) mRNA	Norway rat	2796	2796	100%	0.0	99.54%	1851	NM_001012461.1

➤ Différence Séquencage/CDS au niveau NT :

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Consensus	ATGGATCCGCTGCAGCAGCTCCACCTGGGTCCTCGGAGAGAGAGACCGAGGCGAGCGGGCGCTTCAGGGGCTCCACACCTCAGCAGATCCGATTTCGAGACTTGGCTCTTCTATTTTGGAGAGAGAG													
	131	140	150	160	170	180	190	200	210	220	230	240	250	260
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	261	270	280	290	300	310	320	330	340	350	360	370	380	390
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	391	400	410	420	430	440	450	460	470	480	490	500	510	520
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	521	530	540	550	560	570	580	590	600	610	620	630	640	650
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	651	660	670	680	690	700	710	720	730	740	750	760	770	780
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	911	920	930	940	950	960	970	980	990	1000	1010	1020	1030	1040
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Consensus	GATCTGGTCTATGTGCCCTATGAGCGCCG66GCTTCGCCCTGCTCGGGTGGACTGGATCCAGGCAAGTTTGAAGAGAGCTTGC66GCTACGCCACACAGAGCGGAGATGATCTGGACAGCCAGCGTC													
	1431	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1534		
seq	TGATGACAGAGCAGAGGGGTGTTCTTGAAGCAGAAAGTGAGAGAGAGATCTTTGCCATCTGGGATTGGACTACATTGAACCATGGGAAAGAAATGCTTAA													
cds	TGATGACAGAGCAGAGGGGTGTTCTTGAAGCAGAAAGTGAGAGAGAGATCTTTGCCATCTGGGATTGGACTACATTGAACCATGGGAAAGAAATGCTTAA													
Consensus	TGATGACAGAGCAGAGGGGTGTTCTTGAAGCAGAAAGTGAGAGAGAGATCTTTGCCATCTGGGATTGGACTACATTGAACCATGGGAAAGAAATGCTTAA													

Vérifier avec séquençage interne si décalage avant 750 est vérifié

Primer interne : Dntt_int_558Fwd : ttcttgtctgccattcatgc

- **FlagBirA Dntt rate clone B**

- **B3Fwd rate 851NT**

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- **BGHRev 1086NT**

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- **Seq int 1110NT**

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- **Synthèse séquençage rate**

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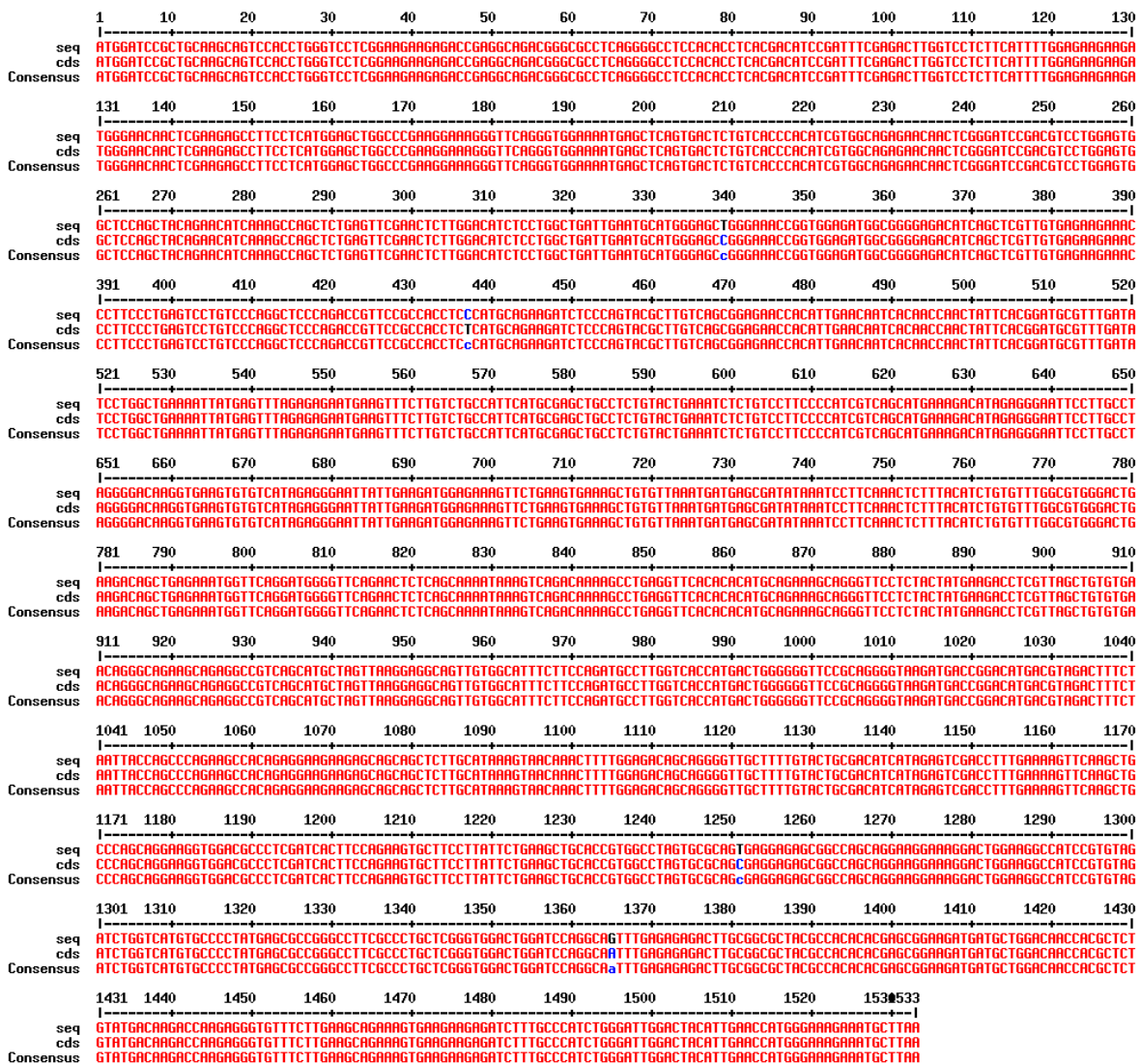
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 DYIEPWERN-

➤ Blast contre banque rat

		Score	Score	Cover	value	Ident	Len	Accession
☒	Rattus norvegicus DNA nucleotidylexotransferase (Dntt)_mRNA							
	Rattus norvegicus	2809	2809	100%	0.0	99.74%	1851	NM_001012461.1

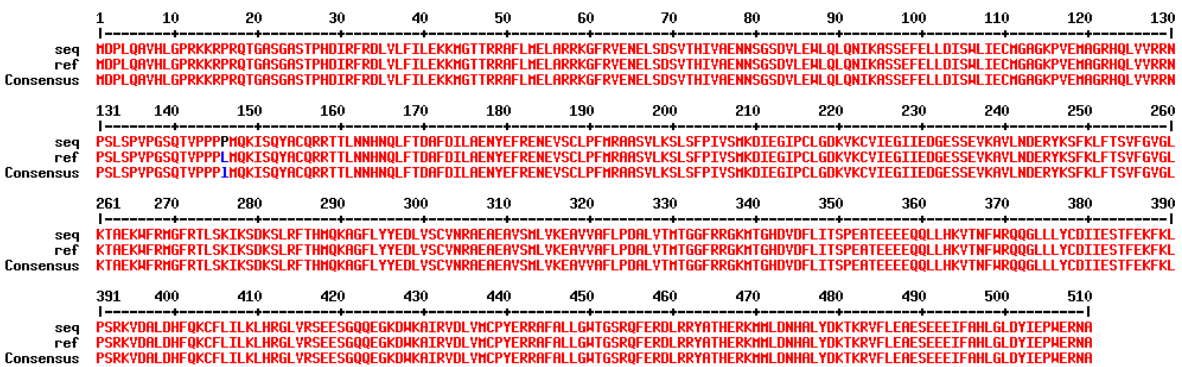
➤ Différence Séquençage/CDS au niveau NT :



4 mutations

➤ Différence au niveau protéique :

	Description	Scientific Name	max Score	total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession
✓	DNA nucleotidyltransferase [Rattus norvegicus]	Rattus norvegicus	1057	1057	100%	0.0	99.80%	510	NP_001012479.1
✓	deoxynucleotidyltransferase, terminal [Rattus norvegicus]	Rattus norvegicus	1004	1004	94%	0.0	99.79%	500	EDL94195.1
✓	DNA-directed DNA/RNA polymerase mu [Rattus norvegicus]	Rattus norvegicus	390	390	98%	1e-130	42.49%	495	NP_001011912.1



1 mutation en prot : 146 P<L

Dntt rate clone B OK