

-Nous voulons créer par PCR une sonde d'exactly 360 pb centrée sur la position 1200 de l'ADN présent ci dessous. Quelles amorces devons commander chez notre fabricant préféré. Bien justifier tous les détails de conception des amorces et leur orientation.

5'	acatgatatc	tatttcatcc	tcacctctct	cacttatgtc	cctcaatatac	tcttccaatt	60
	tcaatacctc	atcctctttg	caatatccat	tttcccaaaa	acaacatcaa	ccctctaaga	120
	atagaaaacc	aaagcaccat	aaaatagcat	gcacttccaa	tgatactaac	caaaatagcc	180
	ctaaagaaca	agaacaaaaa	ccatcaccta	gaagaaatgt	tctaataagg	ctaggaggac	240
	tttatgggtg	taccactctc	acaacaaca	actcattagc	ctttgggtgct	ccgggtgcca	300
	ttccagatct	caccaaagt	gtaattccac	catctgggtg	tccagtgcca	atcaattggt	360
	gtccaccatt	ttccaaagac	atcatagatt	ttaagtacc	tagttttgaa	aaattaaggg	420
	taagaccagc	tgacacaatta	gttgatgatg	attattttgc	aaaatacaat	aaagcccttg	480
	aactcatgag	agccctacca	gatgatgatc	caagaagttt	ttccaacaa	gctaaaattc	540
	attgtgctta	ttgtgttggt	ggttataaac	aactaggtta	ccctgaaatt	gaactaagtg	600
	ttcataattc	ttggctatth	ttggctttcc	atcgttggta	tatttattth	tatgagagga	660
	tattaggtag	tttaatacaat	gatcctactt	ttgccatacc	cttttggaat	tttgatgctc	720
	ctgatggcat	gcaaatctct	tccattttta	caaatccaaa	ttcttcctct	tatgacctta	780
	aaagagattc	cagacatcaa	ccaccaagaa	tcattgacct	aaactataac	aaagatactg	840
	aagaccagc	tcctaattat	cctcccagtg	cagaacaaca	aatcaaagac	aaccttactt	900
	taatgcataa	acaaatgatc	accaacagca	agacctgtat	actatttcat	ggaagccctt	960
	atcgcgctgg	tcaagcacct	ggaaaaggtc	atggggcatt	agaaatgagt	ccacataata	1020
	atgttcataat	atggagtggt	gatgcaaaac	agccttatag	agaggacatg	ggaaatttct	1080
	attcctccgg	aagagatcca	cttttttacg	ctctccatgc	aaatgtggat	aggttgtggt	1140
	ctatthggaa	aacattaggt	ggaaaaagaa	aggatcccac	tgacgatgat	tggctagagt	1200
	ctgaatttct	ctthtatgat	gagaataaga	atcttgthaa	agtgaaagtc	aaggatggtc	1260
	ttgatggaaa	aaagctaggt	tatgattatc	aaaaggthga	cattccttgg	ataaattcta	1320
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	ttgttgataa	gthtcctatt	gthttggatt	cggthgtgag	tactatcgtg	aagaggccaa	1440
	agaagtcgag	gagthcaaag	gagaaggaag	atgaagagga	gaththgggtg	atagatggga	1500
	tcgagthtga	tagcaacatt	gaagthtaagt	thgatgthtat	tgtgaaatgat	gaagatgata	1560
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	agaaaaatatt	gthtatgtagt	aacgtcttat	thagaagtht	thctaaagthta	aaaaaaaaaa	1980