

8 Pol Em Mm

DNA polymerase

well-known eukaryotic polymerase pol γ (beta), as well as other eukaryotic polymerases such as Pol α (sigma), Pol β (lambda), Pol δ (mu), and Terminal deoxynucleotidyl - A DNA polymerase is a member of a family of enzymes that catalyze the synthesis of DNA molecules from nucleoside triphosphates, the molecular precursors of DNA. These enzymes are essential for DNA replication and usually work in groups to create two identical DNA duplexes from a single original DNA duplex. During this process, DNA polymerase "reads" the existing DNA strands to create two new strands that match the existing ones.

These enzymes catalyze the chemical reaction

deoxynucleoside triphosphate + DNA_n γ pyrophosphate + DNA_{n+1}.

DNA polymerase adds nucleotides to the three prime (3')-end of a DNA strand, one nucleotide at a time. Every time a cell divides, DNA polymerases are required to duplicate the cell's DNA, so that a copy of the original DNA molecule can be passed to each daughter cell. In this way, genetic information is passed down from generation to generation.

Before replication can take place, an enzyme called helicase unwinds the DNA molecule from its tightly woven form, in the process breaking the hydrogen bonds between the nucleotide bases. This opens up or "unzips" the double-stranded DNA to give two single strands of DNA that can be used as templates for replication in the above reaction.

Sony Ericsson W580i

hold # to check call history 930 mAh Li-Pol battery Standby time: up to 570 hours Talk time: up to 15 hours Li-Pol battery Compact wall charger User manual - The Sony Ericsson W580i is a mid range slider style mobile phone in the Walkman series. The phone was announced on 26 March 2007 and was released in early August. It is a 2.5G Quad-band (850/900/1800/1900) GSM phone with EDGE capabilities and has a 2 megapixel camera. It comes in "Style White", "Boulevard Black", "Metro Pink", "Urban Grey", "Jungle Green" and "Velvet Red".

The phone made an appearance in Ciara and 50 Cent's music video, "Can't Leave 'Em Alone". It was also shown in the films You Don't Mess with the Zohan and Paul Blart: Mall Cop. The phone contains the ability to detect motion on a limited scale. For instance, the phone keeps track of how many steps the user has taken. The W580i has a special feature, Shake Control, which also makes use of motion sensing. When listening to music in the Walkman feature, depressing the Walkman button and subsequently shaking the phone will select a song at random.

The W580i is the predecessor to the Sony Ericsson W595, and related, non-Walkman equivalent is Sony Ericsson S500.

Heckler & Koch HK416

280 mm (11 in) barrel weighing 3.7 kg (8.2 lb) without the ability to use a grenade launcher, and 38,505 will be a "standard" version with a 368 mm (14 - The Heckler & Koch HK416 is an assault rifle chambered for the 5.56×45mm NATO cartridge, designed and manufactured by the German company Heckler & Koch. Although the design is based on the AR-15 class of firearm (specifically the Colt M4 carbine family issued to the U.S. military), it uses a proprietary short-stroke gas piston system from the Heckler & Koch G36 family of rifles.

The HK416 has been adopted by various military forces and is used by many special operations units worldwide. The Norwegian Armed Forces had adopted the HK416N as their standard issue rifle in 2008. The United States Marine Corps has adopted a modified variant, designated as the M27 Infantry Automatic Rifle to replace the M249 SAW, and eventually also the M16A4, M4 and M4A1. The HK416F has been selected by the French Armed Forces to replace the FAMAS in 2017. The HK416 A5 is in service with the Irish Army Ranger Wing. The German Army had adopted a variant of the HK416, designated as the G95A1 to replace the Heckler & Koch G36 as their standard issue service rifle.

LTR retrotransposon

LTR-retrotransposon mRNAs are produced by the host RNA pol II acting on a promoter located in their 5' LTR. The Gag and Pol genes are encoded in the same mRNA. Depending - LTR retrotransposons are class I transposable elements (TEs) characterized by the presence of long terminal repeats (LTRs) directly flanking an internal coding region. As retrotransposons, they mobilize through reverse transcription of their mRNA and integration of the newly created cDNA into another genomic location. Their mechanism of retrotransposition is shared with retroviruses, with the difference that the rate of horizontal transfer in LTR-retrotransposons is much lower than the vertical transfer by passing active TE insertions to the progeny. LTR retrotransposons that form virus-like particles are classified under Orterviraes.

Their size ranges from a few hundred base pairs to 30 kb, the largest species reported to date are members of the Burro retrotransposon family in *Schmidtea mediterranea*.

In plant genomes, LTR retrotransposons are the major repetitive sequence class constituting more than 75% of the maize genome. LTR retrotransposons make up about 8% of the human genome and approximately 10% of the mouse genome.

SOS response

the SOS response is caused by three low-fidelity DNA polymerases: Pol II, Pol IV and Pol V. Researchers are now targeting these proteins with the aim of - The SOS response is a global transcriptional response to DNA damage in prokaryotes, in which the cell cycle is arrested and DNA repair mechanisms (error-free as well as error-prone) are induced. The regulation of this response is driven by two proteins, RecA and LexA. The RecA protein, stimulated by single-stranded DNA, is involved in the inactivation of the repressor (LexA) of SOS response genes thereby inducing the response. It is an error-prone repair system that contributes significantly to DNA changes observed in a wide range of bacterial species.

2025 Campeonato Brasileiro Série A

Soccerway Source: Soccerway Source: FBref.com "Calendário do futebol brasileiro em 2025: veja as datas" [2025 Brazilian football calendar: see dates] (in Brazilian - The 2025 Campeonato Brasileiro Série A is the 69th season of the Campeonato Brasileiro Série A, the top level of professional football in Brazil, and the 22nd edition in a double round-robin since its establishment in 2003. The competition began on 29 March and will end on 21 December 2025.

The top six teams as well as the 2025 Copa do Brasil champions will qualify for the Copa Libertadores. Meanwhile, the next six best-placed teams not qualified for Copa Libertadores will qualify for the Copa Sudamericana, and the last four will be relegated to Série B for 2026.

Botafogo are the defending champions, having won their third title in the previous season.

Emmi Piironen

SM-kilpailut". Kisanet (in Finnish). 4 May 2025. "VII Gdynia Rhythmic Stars GDYNIA (POL)". www.gymnastics.sport. International Gymnastics Federation. Retrieved 10 - Emmi Piironen (born 8 August 2007) is a Finnish rhythmic gymnast who represents Finland internationally. She is a two-time (2023, 2024) Finnish National all-around champion and the 2025 all-around silver medalist.

Ahvaz

Retrieved 8 April 2015.{{cite web}}: CS1 maint: bot: original URL status unknown (link) "No. Of days with precipitation equal to or greater than 1 mm in Ahwaz - Ahvaz (Persian: اَه‌و‌ز; [ʔæhʔvʔʔz]) is a city in the Central District of Ahvaz County, Khuzestan province, Iran, serving as capital of the province, the county, and the district.

Ahvaz is home to over 1.3 million people within its metropolitan area. Census results suggest a steady increase in population. It is home to Persians, Arabs and other groups such as Qashqai and Kurds. Languages spoken in the area include Persian, Khuzestʔni Arabic, Southern Kurdish, Neo-Mandaic, and dialects such as Bakhtiari, Dezfuli and Shushtari.

The Karun, the largest river in Iran by volume, flows through the center of the city. It is one of two navigable rivers in Iran, alongside the Arvand Rud.

Ahvaz has earned the reputation of being the City of Bridges due to its numerous big bridges built on the Karun to facilitate better communication between the east and west parts of the city, although since the beginning of the 20th century, this city has always been known as the Oil Capital of Iran, along with other cities of Khuzestan province.

This city has a long history, dating back to the Achaemenid period. In ancient times, the city was one of the main centers of the Academy of Gondishapur.

Enterococcus faecium

doi:10.1038/s41598-017-11265-2. PMC 5593968. PMID 28894187. Zerbato, Verena; Pol, Riccardo; Sanson, Gianfranco; Suru, Daniel Alexandru; Pin, Eugenio; Tabolli - *Enterococcus faecium* is a Gram-positive, gamma-hemolytic or non-hemolytic bacterium in the genus *Enterococcus*. It can be commensal (innocuous, coexisting organism) in the gastrointestinal tract of humans and animals, but it may also be pathogenic, causing diseases such as neonatal meningitis or endocarditis.

Vancomycin-resistant *E. faecium* is often referred to as VRE.

?SD Class E 499.1

converted to maintenance railcars[non-primary source needed] (designated as EM or PEM) and retired by 2012. After buying a number of Czechoslovak-built Škoda - Class E 499.1 was an electric locomotive constructed and built by Škoda Works in Plzeň for use in Czechoslovakia by the Czechoslovak State Railways (ČSD). They were also used outside Czechoslovakia in Poland as class EP05 and in the Soviet Union as ЧС3 (ChS3). In North Korea, licence built copies were used (100 series).

After the fall of the iron curtain and consequent upheavals in railway operations they remain in use with a number of railways. Still in the 1980s ČSD locomotives were renumbered to the class 141. After dividing Czechoslovakia in 1993 all locos of this class have remained in Czech Republic.

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