

Rpos

RpoS

The gene *rpoS* (RNA polymerase, sigma S, also called *katF*) encodes the sigma factor sigma-38 (σ³⁸, or RpoS), a 37.8 kD protein in *Escherichia coli*. Sigma - The gene *rpoS* (RNA polymerase, sigma S, also called *katF*) encodes the sigma factor sigma-38 (σ³⁸, or RpoS), a 37.8 kD protein in *Escherichia coli*. Sigma factors are proteins that regulate transcription in bacteria. Sigma factors can be activated in response to different environmental conditions. *rpoS* is transcribed in late exponential phase, and RpoS is the primary regulator of stationary phase genes. RpoS is a central regulator of the general stress response and operates in both a retroactive and a proactive manner: it not only allows the cell to survive environmental challenges, but it also prepares the cell for subsequent stresses (cross-protection). The transcriptional regulator CsgD is central to biofilm formation, controlling the expression of the curli structural and export proteins, and the diguanylate cyclase, *adrA*, which indirectly activates cellulose production. The *rpoS* gene most likely originated in the gammaproteobacteria.

Royal Philharmonic Orchestra

The Royal Philharmonic Orchestra (RPO) is a British symphony orchestra based in London, England. The RPO was established by Thomas Beecham in 1946. In - The Royal Philharmonic Orchestra (RPO) is a British symphony orchestra based in London, England.

The RPO was established by Thomas Beecham in 1946. In its early days, the orchestra secured profitable recording contracts and important engagements including the Glyndebourne Festival Opera and the concerts of the Royal Philharmonic Society. After Beecham's death in 1961, the RPO's fortunes declined steeply. The RPO battled for survival until the mid-1960s, when its future was secured after a report by the Arts Council of Great Britain recommended that it should receive public subsidy. A further crisis arose in the same era when it seemed that the orchestra's right to call itself "Royal" could be withdrawn.

In 2004, the RPO acquired its first permanent London base, at Cadogan Hall in Chelsea. The RPO also gives concerts at the Royal Festival Hall, the Royal Albert Hall and venues around the United Kingdom and other countries. Since the start of the 2021–2022 season, the orchestra's musical director has been Vasily Petrenko.

RPO

RPO may refer to: Recovery point objective, in business-continuity planning for computing Recruitment Process Outsourcing, a form of business-process - RPO may refer to:

RPO-A Shmel

The RPO-A Shmel (Russian: РПО-А Шмель, lit. 'rocket-propelled infantry flamethrower "Bumblebee"') is a man-portable, single-use - The RPO-A Shmel (Russian: РПО-А Шмель, lit. 'rocket-propelled infantry flamethrower "Bumblebee"') is a man-portable, single-use, rocket-assisted thermobaric weapon. While its name directly translates to flamethrower (and it is classified as such in Russian military documents), the RPO-A Shmel is more accurately described as a thermobaric weapon.

The Shmel is designed, produced and exported by the Russian Federation and previously by the Soviet Union. It entered service with the Soviet Armed Forces at the end of the 1980s as the successor for the RPO Rys.

Regular Production Option

1970 GM switched to the alphanumeric RPO code. Even base vehicles with few optional features have multiple RPOs, since both standard components (like - A Regular Production Option (RPO) is a 3-digit standardized code used by General Motors to designate vehicle options and modifications. RPO codes designate how a vehicle is built. They have been used on dealership order forms and in assembly plants since at least the 1950s (e.g., for the Corvette C1). It was originally all numeric and labeled Sales Codes; in 1970 GM switched to the alphanumeric RPO code.

Even base vehicles with few optional features have multiple RPOs, since both standard components (like engine, transmission, and paint color) and extra cost options are coded.

The complete configuration of a GM vehicle (as it exited the factory) can be described by specifying the base model and its RPO codes. Some dealerships are willing to run a VIN and print out its RPOs (with their definitions). The records are in GMs' electronic database since at least 1990.

Beginning as early as 1967, and to all models since 1984, GM attached a Service Parts Identification (SPID) label. The label is most often located on the back of the glovebox door, on the inside of the trunk lid, or on the bottom of the spare tire cover. On some SUVs and mini-vans, the SPID label is located on one of the plastic storage covers in the rear of the vehicle.

The SPID lists, in alphanumeric order, many of the options built into a vehicle, both RPOs and the older and longer Option Model numbers sometimes used before 1970. These codes can be used to help select the correct replacement parts.

In 2018, the SPID was replaced by a QR code label located on the B-pillar (driver's side, between front and rear doors). While fairly complete, it does not include every RPO.

Railway post office

known to operate RPOs. The Boston Elevated Railway car was noted for making circuits of the city to pick up mail. In the United States, RPO cars (also known - In Canada and the United States, a railway post office, commonly abbreviated as RPO, was a railroad car that was normally operated in passenger service and used specifically for staff to sort mail en route, in order to speed delivery. The RPO was staffed by highly trained Railway Mail Service postal clerks, and was off-limits to the passengers on the train.

From the middle of the 19th century, many American railroads earned substantial revenues through contracts with the U.S. Post Office Department (USPOD) to carry mail aboard high-speed passenger trains. The Railway Mail Service enforced various standardized designs on RPOs. A number of railway companies maintained nominally unprofitable passenger routes, having found that their financial losses from moving people were more than offset by transporting the mail on such passenger routes.

Run-pass option

"Stanford Film Study: Glance Tunnel RPO". The Stanford Daily. Ruiz, Stephen (September 6, 2019). "A casual NFL fan's guide to RPOs". For the Win. Galina, Seth - The run-pass option (RPO) is a type of designed option play in American football in which the offensive team has the ability to either rush or pass the ball depending on the alignment and actions of defensive team. Like the

standard read-option, the quarterback is responsible for viewing the actions of a particular defender (the "read man") and makes a decision to hand the ball off to their running back depending on how that defender chooses to act after the snap of the ball. However, unlike the read-option, the quarterback is responsible for making a decision regarding whether or not to throw a play-action pass to a receiver running a designed route, rather than simply the decision to keep the ball and run with it.

RpoS mRNA 5'UTR

rpoS mRNA encodes for the rpoS stress factor, sigma S (σ^S or σ^{38}) in *Escherichia coli* and related bacteria, where DsrA in conjunction with the Sm like - rpoS mRNA encodes for the rpoS stress factor, sigma S (σ^S or σ^{38}) in *Escherichia coli* and related bacteria, where DsrA in conjunction with the Sm like RNA binding protein, Hfq promote the translation of this rpoS mRNA. The 5' UTR of the rpoS mRNA forms a self-inhibitory stem loop that shields the shine-dalgarno sequence and therefore inhibits translation. The secondary structure of the 5'UTR was predicted by acetylation of ribose 2'-hydroxyls with NMIA and by using a secondary structure prediction program, RNAstructure. DsrA stimulates rpoS translation by binding in the 5'UTR and causes the stem loop to open, exposing the ribosome binding site.

Site-directed mutagenesis and deletion analysis located an AAYAA motif identified upstream of the stem loop structure which is required for Hfq binding. Comparative genomics has shown that this regulatory secondary structure is conserved across several gram-negative bacteria species.

RPO Rys

RPO "Rys" (Russian: *Ракетно-пущенный гранатомет* «РПГ» (*РПГ* «РПГ»)), Rocket-propelled Infantry Flamethrower "Lynx" is a napalm rocket-propelled grenade - RPO "Rys" (Russian: *Ракетно-пущенный гранатомет* «РПГ» (*РПГ* «РПГ»)), Rocket-propelled Infantry Flamethrower "Lynx" is a napalm rocket-propelled grenade launcher classified as flamethrower by Russian military. The RPO had first entered service in 1975 and it was intended to replace the obsolete LPO-50 flamethrowers. Later it was replaced by the RPO-A Shmel.

RpoE

The gene rpoE (RNA polymerase, extracytoplasmic E) encodes the sigma factor sigma-24 (σ^{24} , sigma E, or RpoE), a protein in *Escherichia coli* and other - The gene rpoE (RNA polymerase, extracytoplasmic E) encodes the sigma factor sigma-24 (σ^{24} , sigma E, or RpoE), a protein in *Escherichia coli* and other species of bacteria. Depending on the bacterial species, this gene may be referred to as sigE.

RpoE appears to be necessary for the exocytoplasmic stress response. *E. coli* mutants without rpoE cannot grow at high temperatures (that is, above 42 degrees C) and show growth defects at lower temperatures, though this may be due to compensatory mutations. In some bacterial species, such as *Clostridium botulinum*, this sigma factor may be necessary for sporulation.

The stress response regulation activities of RpoE are modulated by the Hfq protein in *E. coli*.

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